

<sup>®</sup>  
**Lufkin**

**CooperTools**



# Lufkin®

For over a century the name of Lufkin® has been associated with quality measuring tools. Lufkin short, long, pocket and special purpose tapes are joined by a host of other products matched to the needs of the architect, surveyor, home craftsman, carpenter in fact, everyone who measures. Lufkin was appointed official supplier of measuring tapes to the 1976 and 1980 Olympic Games.

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## Key to symbols



Blade length



Blade width



Blade style

### Note:

N/S No. is an abbreviation for NIDA/SIDA Number.

## Short tapes

Blades are finished with an abrasive resistant coating for durability and long life. Two color easy-to-read markings. Self-adjusting end hooks. Metric, Metric/English and English. Refills available.

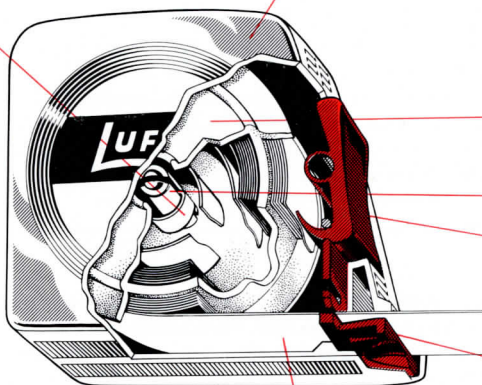
## Ultralok™ specifications

### Spring

- High quality, tempered spring steel anchored to center post.
- Stress winding technique gives natural action blade return.

### Case

- Molded from the same high-impact material found in telephones and racing drivers' helmets.
- Highly polished, electroplated chromium finish.
- Reduces weight by as much as 40% compared with metal cases.
- Sure grip serrated edges prevent slipping.



## Short tapes

### Prefixes

- C— Chrome clad
- R— Replacement blade
- W or Y— Yellow clad

### Suffixes

- M— Metric graduations
- ME— Metric/English graduations, millimeter numbering
- CM— Metric/centimeter numbering
- CME— Metric/English graduations, centimeter numbering
- D— English graduated feet and decimal feet along one edge, feet and inches along other edge

### Nylon spool

- Smooth action by separating measuring blade from spring and case sides—acts as a double bearing.

### Axle

- Solid center post extending completely across case keeps nylon spool running smoothly.

### Lock

- Large button conveniently positioned at front of case.
- Holds measuring blade securely at any length.

### Shock absorber

- Cushions natural action measuring blade return, reducing end hook damage.

### End hook

- Plated rust resistant finish.
- Self-adjusting for accurate inside or outside measurement.

### Belt clip

- Removable belt clip of electro-plated spring steel

### Refills

- Always available.
- Easily changed by customer or dealer.

### Measuring blade

- High quality tempered spring steel.
- Baked enamel finish.
- Red and black graduations.
- Transparent abrasive resistant coating. Available in yellow and chrome clad finish and in widths of 1/4"/6mm, 1/2"/13mm, 3/4"/19mm and 1"/25mm and up to 26'/8m long.
- Blade graduations in English, Metric/English or Metric.

## Ultralok™

All yellow clad. Ultralok tapes have exclusive new Ultramatte™ non-glare blades. This special coating also enables user to write on blade and wipe off.





Cat. No.	N/S No.	"/mm x '/m	Blade Style	Std. Pack	Pack Wt. lb/kg	Repl. Blade No.	N/S No.
<b>Y28</b>	45048	1/2" x 8'	A1	6	1.4/.66	<b>RY28</b> (RY8)(RW8)	45017
<b>Y210</b>	45136	1/2" x 10'	A1	6	1.7/.78	<b>RY210</b> (RY10)(RW10)	45023
<b>Y212</b>	45139	1/2" x 12'	A1	6	1.7/.78	<b>RW12</b> (RY12)(RY212)	45038
<b>Y12</b> (Y312)	45032	3/4" x 12'	A2	6	2.2/.98	<b>RW312</b> (RY312)	45220
<b>Y16</b> (Y316)	45039	3/4" x 16'	A2	6	3.3/1.3	<b>RW316</b> (RY316)	45233
<b>Y25</b> (Y325)	45046	3/4" x 25'	A2	6	4.7/2.1	<b>RY325</b>	45325
<b>Y116</b> (Y416)	45662	1" x 16'	A2	6	4.1/1.9	<b>RY416</b> (R416)	45713
<b>Y125</b> (Y425)	45663	1" x 25'	A2	6	6.0/2.7	<b>RY425</b> (R425)	45704
<b>C212X</b>	45664	1/2" x 12'	A3	6	1.8/.82	<b>RC212X</b> (RC12X)	45036
<b>W312D</b> (12D)	45030	3/4" x 12'	A4	6	2.3/1.0	<b>RW312D</b>	45935
<b>W325D</b> (25D)	45727	3/4" x 25'	A4	6	—	—	—
<b>W33CMD</b> (W933MD)	45374	3/4" x 10'/3m	A5	6	2.2/1.0	—	45056
<b>Y23CM</b> (Y210ME)	45137	1/2" x 3m	A29	6	1.7/.78	—	—
<b>Y23CME</b> (Y210ME)	45138	1/2" x 10'/3m	A28	6	1.7/.78	—	—
<b>Y35ME</b> (Y16ME)	45041	3/4"/19mm x 16'/5m	A12	6	3.2/1.4	<b>RY35ME</b> (RY316ME)	45234
<b>Y38ME</b> (Y26ME)	45717	3/4" x 26'/8m	A12	6	4.7/2.1	<b>RY38ME</b> (RY326ME)	45711

Please see pages 7—10 for blade styles.

Order by catalog number and/or replacement number shown in bold.

## A silver-colored Lufkin folding steel tape measure is shown against a white background. The tape measure has a black plastic handle with a silver-colored metal blade extended from it. The blade is marked with inches and centimeters. The Lufkin logo and specifications "5 m 16\"", "R.D. 1970", and "VSCME" are visible on the handle.

Cat. No.	N/S No.	 "/mm x '/m	Blade Style	Std. Pack	Pack Wt. lb/kg	Repl. Blade No.	N/S No.
Y22CME	—	$\frac{1}{2}$ " / 13mm x 6' / 2m	A28	6	1.3 / .59	RY22CME	—
Y23CME	—	$\frac{1}{2}$ " / 13mm x 10' / 3m	A28	6	1.7 / .77	RY23CME	—
Y24CME	—	$\frac{1}{2}$ " / 13mm x 13' / 4m	A28	6	2.0 / .92	RY24CME	—
Y25CME	—	$\frac{1}{2}$ " / 13mm x 16' / 5m	A28	6	2.3 / 1.0	RY25CME	—
Y33CME	—	$\frac{3}{4}$ " / 19mm x 10' / 3m	A28	6	2.3 / 1.0	RY33CME	—
Y34CME	—	$\frac{3}{4}$ " / 19mm x 13' / 4m	A28	6	2.8 / 1.3	RY34CME	—
Y35CME	—	$\frac{3}{4}$ " / 19mm x 16' / 5m	A28	6	3.1 / 1.4	RY35CME	—
Y35ME	—	$\frac{3}{4}$ " / 19mm x 16' / 5m	A28	1	3.1 / 1.4	RY35ME	—
Y38CME	—	$\frac{3}{4}$ " / 19mm x 26' / 8m	A28	6	4.6 / 2.1	RY38CME	—
Y45CME	—	1" / 25mm x 16' / 5m	A29	6	4.5 / 2.1	RY45CME	—
Y48CME	—	1" / 25mm x 26' / 8m	A29	6	6.6 / 3.0	RY48CME	—
Y22CM	—	13mm x 2m	A29	6	1.3 / .59	RY22CM	—
Y23CM	—	13mm x 3m	A29	6	1.7 / .77	RY23CM	—
Y24CM	—	13mm x 4m	A29	6	1.7 / .77	RY24CM	—
Y25CM	—	13mm x 5m	A29	6	2.3 / 1.0	RY25CM	—
Y33CM	—	19mm x 3m	A29	6	2.3 / 1.0	RY33CM	—
Y34CM	—	19mm x 4m	A29	6	—	RY34CM	—
Y35CM	—	19mm x 5m	A29	6	3.1 / 1.4	RY35CM	—
Y38CM	—	19mm x 8m	A29	6	4.6 / 2.1	RY38CM	—

Cat. No.	N/S No.	 1/4" " / mm x ' / m	Blade Style	Std. Pack	Pack Wt lb / kg	Repl. Blade No.	N/S No.
<b>W7312</b> (Y7312)	45530	3/4" x 12'	A2	6	2.3 / 1.0	<b>RW312</b> (RY312)	45220
<b>W7316</b> (Y7316)	45532	3/4" x 16'	A2	6	3.0 / 1.3	<b>RW316</b> (RY316)	45233
<b>W728</b>	45867	1/2" x 8'	A1	6	1.4 / .64	<b>RY28</b> (RY8)(RW8)	45017
<b>W7210</b>	45868	1/2" x 10'	A1	6	1.6 / .76	<b>RY210</b> (RY10)(RW10)	45023
<b>Y7210MEX</b>	45526	1/2" x 13mm x 3/4" / 19mm	A15	6	1.6 / .75	<b>RY10MEX</b> (RY10MEX)	45025
<b>W7212</b>	45869	3/4" x 12'	A1	6	1.7 / .79	<b>RW12</b> (RY12)(RY212)	45038

Cat. No.	N/S No.	 " / mm x ' / m	Blade Style	Std. Pack	Pack Wt. lb/kg	Repl. Blade No.	N/S No.
<b>W926</b>	45871	$\frac{1}{2}$ " x 6'	A1	6	1.0/.49	<b>RW6</b> (RY6)	45010
<b>W928</b>	45872	$\frac{3}{4}$ " x 8'	A1	6	1.2/.56	<b>RY28</b> (RY8)(RW8)	45016
<b>W9210</b>	45873	$\frac{1}{2}$ " x 10'	A1	6	1.5/.71	<b>RY210</b> (RY10)(RW10)	45020
<b>W9212</b>	45874	$\frac{1}{2}$ " x 12'	A1	6	1.6/.75	<b>RW12</b> (RY12)(RW12)	45038
<b>W9310</b>	45877	$\frac{3}{4}$ " x 10'	A2	6	2.0/.94	<b>RW310</b> (RY310)	45216
<b>W9312</b>	45878	$\frac{3}{4}$ " x 12'	A2	6	2.2/1.0	<b>RW312</b> (RY312)	45220
<b>W9316</b>	45870	$\frac{3}{4}$ " x 16'	A2	6	—	<b>RW316</b> (RY316)	45233
<b>W9210D</b>	45881	$\frac{1}{2}$ " x 10'	A4	6	1.5/.71	<b>RW10D</b> (RY10D)	45021
<b>W9312D</b>	45879	$\frac{3}{4}$ " x 12'	A4	6	2.2/1.0	<b>RW312D</b> (RY312D)	45935
<b>W9210M</b>	45555	$\frac{1}{2}$ " x 3m	A9	6	1.5/.68	—	—
<b>W926ME</b>	45875	$\frac{1}{2}$ " / 13mm x 6' / 2m	A11	6	1.1/.50	<b>RW6ME</b> (RY6ME)	45011
<b>W9210ME</b>	45876	$\frac{1}{2}$ " / 13mm x 10' / 3m	A11	6	1.5/.71	<b>RW10ME</b> (RY10ME)(RY23ME)	45024


Lufkin 2



## Mezurall – chrome clad

Chrome plated case. Manual operation. Choice of industrial uses because it is tough, accurate and has a hard chrome plated blade. Available in widths of  $\frac{1}{2}$ " / 13mm and  $\frac{3}{4}$ " / 19mm and up to 12' / 4m in length.



Cat. No.	N/S No.	 " / mm x ' / m	Blade Style	Std. Pack	Pack Wt. lb/g	Repl. Blade No.	N/S No.
C9212X	45557	$\frac{1}{2}$ " x 12'	A7	6	—	RC212X	45036
C926	45367	$\frac{1}{2}$ " x 6'	A8	6	.89/.40	RC6	45006
C928	45372	$\frac{1}{2}$ " x 8'	A8	6	1.0/.47	RC8	45014
C9210	45548	$\frac{1}{2}$ " x 10'	A8	6	1.3/.63	RC10	45019
C9212	45556	$\frac{1}{2}$ " x 12'	A8	6	1.4/.68	RC12	45035
C9312	45563	$\frac{3}{4}$ " x 12'	A2	6	2.1/.96	RC312	45218
C9210M	45549	$\frac{1}{2}$ " x 3m	A9	6	1.6/.74	—	—
C926ME	45368	$\frac{1}{2}$ " / 13mm x 6' / 2m	A11	6	.90/.41	—	—
C9210ME	45550	$\frac{1}{2}$ " / 13mm x 10' / 3m	A11	6	1.3/.61	—	—

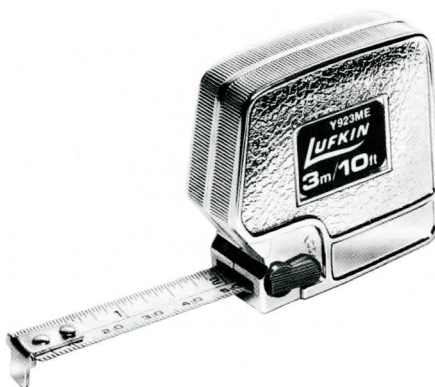
The following tapes are available for export.


C2CME	—	$\frac{1}{2}$ " / 13mm x 6' / 2m	A28	6	1.6/.72	RC2CME	—
C3CME	—	$\frac{1}{2}$ " / 13mm x 10' / 3m	A28	6	1.8/.82	RC3CME	—
C2M	—	13mm x 2m	A29	6	1.6/.72	RC2M	—
C3M	—	13mm x 3m	A29	6	1.8/.82	RC3CM	—

Please see pages 7—10 for blade styles.

## Mezurlok (export only)

Yellow clad.  $\frac{1}{2}$ " / 13mm and  $\frac{3}{4}$ " / 19mm wide. Positive lock. Removable belt clip.



Cat. No.	N/S No.	 " / mm x ' / m	Blade Style	Std. Pack	Pack Wt. lb/kg	Repl. Blade No.	N/S No.
<b>W928</b>	—	$\frac{1}{2}$ " x 8'	A1	6	1.3/.59	<b>RY8 (RW8)</b>	—
<b>W9210</b>	—	$\frac{1}{2}$ " x 10'	A1	6	1.4/.64	<b>RY10</b>	—
<b>W9212</b>	—	$\frac{1}{2}$ " x 12'	A1	6	2.1/.95	<b>RY12</b>	—
<b>W9312</b>	—	$\frac{3}{4}$ " x 12'	A1	6	2.1/.95	<b>RY312</b>	—
<b>W9210D</b>	—	$\frac{1}{2}$ " x 10'	A4	6	1.4/.64	<b>RW10D</b>	—
<b>Y922CME</b>	—	$\frac{1}{2}$ " / 13mm x 6' / 2m	A28	6	1.1/.50	<b>RY22CME</b>	—
<b>Y923CME</b>	—	$\frac{1}{2}$ " / 13mm x 10' / 3m	A28	6	1.4/.64	<b>RY23CME</b>	—
<b>Y933CME</b>	—	$\frac{3}{4}$ " / 19mm x 10' / 3m	A28	6	2.1/.95	<b>RY33CME</b>	—
<b>Y935CME</b>	—	$\frac{3}{4}$ " / 19mm x 16' / 5m	A28	6	2.9/1.3	<b>RY35CME</b>	—
<b>Y922CM</b>	—	13mm x 2m	A29	6	1.1/.50	<b>RY22CM</b>	—
<b>Y923CM</b>	—	13mm x 3m	A29	6	1.4/.64	<b>RY23CM</b>	—
<b>Y933CM</b>	—	19mm x 3m	A29	6	2.0/.91	<b>RY33CM</b>	—
<b>Y935CM</b>	—	19mm x 5m	A29	6	2.9/1.3	<b>RY35CM</b>	—

Please see pages 7—10 for blade styles.

Order by catalog number and/or replacement number shown in bold.


## Springs and belt clips for tape rules

Description	Cat. No.	N/S No.
<b>Spring</b>		
S4 for W926, W928 Mezurall	427331	45567
S5 for W9210, S912 Mezurall	427333	45568
S6 for C9310, C9312, W9312 Mezurall	427335	45569
LP3 for W7212 Lokmatic	427605	45574
LP4 for W7312 Lokmatic	427607	45575
LP5 for W7316 Lokmatic	427609	45576
LP7 for Y12-12 Ultralok	427613	45577
LP8 for Y16, W7316, W9316	427615	45578
LP9 for Y25	427617	45579
<b>Belt clips</b>		
BC3 for W926, W928, W9210, W9312	427277	45581
BC4 for W728, W7210, W7316	427279	45582
BC6 for Y12, Y16, Y25, Y210, Y212, Ultralok.	427257	45583

## Unilok

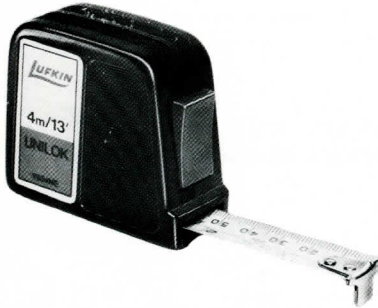


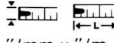
Yellow clad. Lightweight high strength matt-black finished case. Positive toggle lock holds blade securely at any length for accurate measurement. Built-in shock absorber cushions blade return. Removable belt clip. Available in widths of  $\frac{1}{2}$ "/13mm,  $\frac{3}{4}$ "/19mm and 1"/25mm and up to 25'/8m in length. Easy to read black numerals on yellow background.

Cat. No.	N/S No.	 "/mm x '/m	Blade Style	Std. Pack	Pack Wt. lb/kg	Repl. Blade No.	N/S No.
8010	45700	$\frac{1}{2}$ " x 10'	A1	6	1.7/.77	—	—
8012	45701	$\frac{1}{2}$ " x 12'	A1	6	1.8/.82	—	—
8312	45674	$\frac{3}{4}$ " x 12'	A2	6	2.3/1.0	—	—
8316	45675	$\frac{3}{4}$ " x 16'	A2	6	3.1/1.4	—	—
8325	45676	$\frac{3}{4}$ " x 25'	A2	6	4.6/2.0	—	—
8425	45743	1" x 25'	A10	6	5.9/2.6	—	—

Please see pages 7—10 for blade styles.

## Unilok (export only)




Cat. No.	N/S No.	 "/mm x '/m	Blade Style	Std. Pack	Pack Wt. lb/kg	Repl. Blade No.	N/S No.
Y822CME	—	$\frac{1}{2}$ "/13mm x 6'/2m	A28	6	1.4/.64	RY22CME	—
Y823CME	—	$\frac{1}{2}$ "/13mm x 10'/3m	A28	6	1.7/.81	RY23CME	—
Y824CME	—	$\frac{1}{2}$ "/13mm x 13'/4m	A28	6	1.3/.63	RY24CME	—
Y834CME	—	$\frac{3}{4}$ "/19mm x 13'/4m	A28	6	2.3/1.0	RY34CME	—
Y835CME	—	$\frac{3}{4}$ "/19mm x 16'/5m	A28	6	3.0/1.4	RY35CME	—
Y835ME	—	$\frac{3}{4}$ "/19mm x 16'/5m	A28	6	3.0/1.4	RY35CME	—
Y838CME	—	$\frac{3}{4}$ "/19mm x 26'/8m	A28	6	4.6/2.1	RY38CME	—
Y822CM	—	13mm x 2m	A29	6	1.3/.60	RY22CM	—
Y823CM	—	13mm x 2m	A29	6	1.7/.80	RY23CM	—
Y824CM	—	13mm x 4m	A29	6	1.2/.59	RY24CM	—
Y834CM	—	19mm x 4m	A29	6	2.3/1.0	RY34CM	—
Y835CM	—	19mm x 5m	A29	6	3.0/1.3	RY35CM	—
Y838CM	—	19mm x 8m	A29	6	4.4/2.0	RY38CM	—
Y8212	—	$\frac{1}{2}$ " x 12'	A1	6	1.5/.70	—	—
Y8312	—	$\frac{3}{4}$ " x 12'	A2	6	2.3/1.0	—	—
Y8316	—	$\frac{3}{4}$ " x 16'	A2	6	3.0/1.4	—	—
Y8325	—	$\frac{3}{4}$ " x 25'	A2	6	4.6/2.1	—	—

Please see pages 7—10 for blade styles.

## Economy



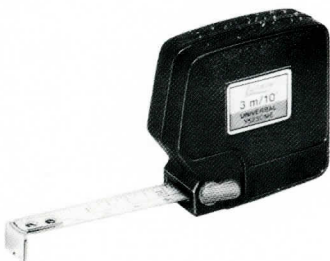
Yellow clad. Lightweight—6'/2m model is 2 oz. High strength matt-black finished case.

Cat. No.	N/S No.	 "/mm x '/m	Blade Style	Std. Pack	Pack Wt. lb/kg	Repl. Blade No.	N/S No.
<b>Y826</b> (W826)	45794	$\frac{1}{2}$ " x 6'	A1	6	.96/.43	<b>RW6</b> (RY6)	45010
<b>Y8210</b> (W8210)	45796	$\frac{1}{2}$ " x 10'	A1	6	1.4/.65	<b>RY210</b> (RY10)(RW10)	45023
<b>Y8212</b> (W8212)	45798	$\frac{1}{2}$ " x 12'	A1	6	1.5/.70	<b>RW12</b> (RY12)(RY212)	45038
<b>Y822ME</b> (W826ME)	45795	$\frac{1}{2}$ "/13mm x 6'/2m	A11	6	1.0/.45	<b>RW6ME</b> (RY6ME)	45011
<b>Y823ME</b> (W8210ME)	45797	$\frac{1}{2}$ "/13mm x 10'/3m	A11	6	1.4/.65	<b>RW10ME</b> (RY10ME)(RY23ME)	45024


Please see pages 7—10 for blade styles.

Order by catalog number and/or replacement number shown in bold.

## Universal (export only)



Yellow clad. Positive lock. Lightweight, high strength matt-black case.

Cat. No.	N/S No.	 "/mm x '/m	Blade Style	Std. Pack	Pack Wt. lb/kg	Repl. Blade No.	N/S No.
Y526	—	$\frac{1}{2}$ " x 6'	A1	6	.97/.44	RY6	—
Y5210	—	$\frac{1}{2}$ " x 10'	A1	6	1.3/.59	RY10	—
Y5212	—	$\frac{1}{2}$ " x 12'	A1	6	1.6/.72	RY12	—
Y522CME	—	$\frac{1}{2}$ "/13mm x 6'/2m	A28	6	1.0/.45	RY22CME	—
Y523CME	—	$\frac{1}{2}$ "/13mm x 10'/3m	A28	6	1.3/.59	RY23CME	—
Y522CM	—	13mm x 2m	A29	6	.95/.43	RY22CM	—
Y523CM	—	13mm x 3m	A29	6	1.3/.59	RY23CM	—

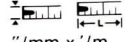
Please see pages 7—10 for blade styles.



## Pee Wee



Yellow clad. High strength matt-black case. Manual operation. Pocket size ideal for office or home.  $\frac{1}{4}$ "/6mm wide blade is flexible; bold black and red graduations on yellow background help to give quick accurate readings.

Cat. No.	N/S No.	 "/mm x '/m	Blade Style	Std. Pack	Pack Wt. lb/kg	Repl. Blade No.	N/S No.
W616	45857	$\frac{1}{4}$ " x 6'	A16	6	.52/.24	RW616	45861
W618	45859	$\frac{1}{4}$ " x 8'	A16	6	.61/.28	RW618	45862
W6110	45854	$\frac{1}{4}$ " x 10'	A16	6	.72/.33	RW6110	45863
W616ME	45858	$\frac{1}{4}$ "/6mm x 6'/2m	A17	6	.55/.25	—	—

The following tapes are available for export.


Y616	—	$\frac{1}{4}$ " x 6'	A16	6	.95/.43	—	—
Y6110	—	$\frac{1}{4}$ " x 10'	A16	6	1.0/.45	—	—
Y612ME	—	$\frac{1}{4}$ "/6mm x 6'/2m	A17	6	.95/.43	—	—
Y613ME	—	$\frac{1}{4}$ "/6mm x 10'/3m	A17	6	1.0/.45	—	—
Y612M	—	6mm x 2m	A13	6	.95/.43	—	—
Y613M	—	6mm x 3m	A13	6	1.0/.45	—	—

Please see pages 7—10 for blade styles.

## Specialty tapes Executive® Tinline

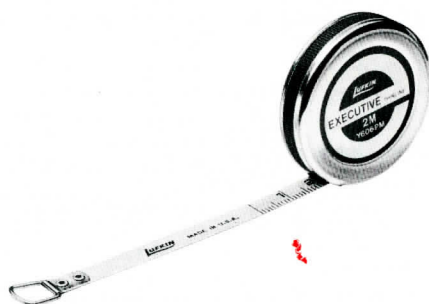


Yellow clad. Polished chrome case. Spring action returns blade to case. Convenient for office, briefcase and pocket. Easy to read bold black and red print on white background.


Cat. No.	N/S No.	 "/mm x '/m	Blade Style	Std. Pack	Pack Wt. lb/kg	Repl. Blade No.	N/S No.
W606	45855	$\frac{1}{4}$ " x 6'	A16	6	.65/.29	RW616	45861
W608	45856	$\frac{1}{4}$ " x 8'	A16	6	.74/.34	RW618	45862
W606ME	45852	$\frac{1}{4}$ "/6mm x 6'/2m	A17	6	.53/.24	—	—

Please see pages 7—10 for blade styles.

## Executive® Diameter



Yellow clad. Polished chrome case. Spring action returns blade to case. Designed for measuring diameters of pipes, cables, tires or any circular objects. Zero falls in the same place on each side of the blade; conversion from diameter to circumference is made simply by turning the blade. Model W606P shows diameter inches to  $\frac{1}{8}$ ths, W606PD to 100ths, W606PM to millimeters.

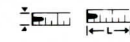
Cat. No.	N/S No.	 "/mm x '/m	Blade Style	Std. Pack	Pack Wt. lb/kg	Repl. Blade No.	N/S No.
W606P	45850	$\frac{1}{4}$ " x 6'	A18	6	.52/.24	—	—
W606PD	45851	$\frac{1}{4}$ " x 6'	A19	6	.53/.24	RW06PD	45860
W606PM	45853	6mm x 2m	A20	6	.54/.24	—	—

Please see pages 7—10 for blade styles.

## Wizard



Easy to read nickel plated blade and chrome plated steel case assure you of a long lasting measuring tool. End hook is stationary.

Cat. No.	N/S No.	 "/mm x '/m	Blade Style	Std. Pack	Pack Wt. lb/kg	Repl. Blade No.	N/S No.
688	45351	$\frac{5}{8}$ " x 8'	A21	6	2.0/.91	—	—
6810	45503	$\frac{5}{8}$ " x 10'	A21	6	.35/.16	—	—

Please see pages 7—10 for blade styles.

## Wizard Junior



Nickel clad. Chrome plated case. End hook is self-adjusting.

Cat. No.	N/S No.	" /mm x ' /m	Blade Style	Std. Pack	Pack Wt. lb/kg	Repl. Blade No.	N/S No.
1688	45461	$\frac{1}{2}$ " x 8'	A21	6	1.1/.53	—	—

Please see pages 7 – 10 for blade style.

## Nubian steel pocket tape



Nubian clad. Easy to carry steel pocket tape with chrome-plated case designed for long wear. Raised steel markings contrast with black background for legibility. Blades hold fast at any length with push-button spring return.

Cat. No.	N/S No.	" /mm x ' /m	Blade Style	Std. Pack	Pack Wt. lb/kg	Repl. Blade No.	N/S No.
146P	45121	$\frac{1}{4}$ " x 6'	A24	1	1.0/.47	0146P	45122
146PD	45123	$\frac{1}{4}$ " x 6'	A25	1	1.0/.49	0146PD	45124
146ME	45119	$\frac{1}{4}$ " /6mm x 6'/2m	A27	1	1.0/.49		

Please see pages 7 – 10 for blade styles.

## Architect's pocket scale



Yellow clad. Manual or automatic return operation available in these special purpose tape rules. The  $\frac{1}{4}$ " /6mm white steel blade has jet black markings.

Cat. No.	N/S No.	" /mm x ' /m	Blade Style	Std. Pack	Pack Wt. lb/kg	Repl. Blade No.	N/S No.
W393 (Manual)	45848	$\frac{1}{4}$ " x 5'	A23	1	1.0/.49	—	—
W605A (Automatic)	45849	$\frac{1}{4}$ " x 5'	A23	6	.51/.23	—	—

Please see pages 7 – 10 for blade style.

## M.D. (medical) tape



Metric and English markings show clearly on this M.D. tape rule.

Cat. No.	N/S No.	" /mm x ' /m	Std. Pack	Pack Wt. lb/kg	Blade Style
PW156ME	45864	$\frac{1}{4}$ " /6mm x 6'/2m	6	.99/.45	A17

Please see pages 7 – 10 for blade style.

## Woven pocket tapes



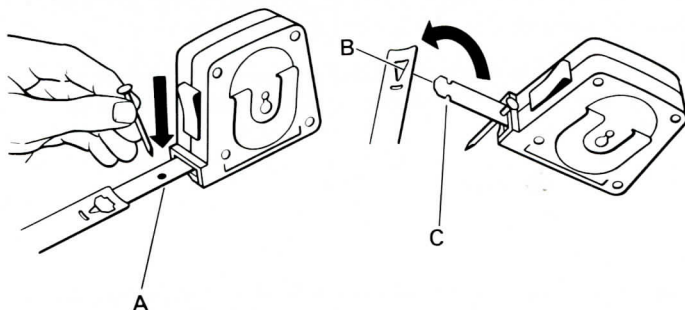
Durable dacron blade. Chrome-plated case designed for long wear.

Cat. No.	N/S No.	" /mm x ' /m	Blade Style	Std. Pack	Pack Wt. lb/kg	Repl. Blade No.	N/S No.
3176ME	45478	$\frac{1}{4}$ " /6mm x 6'/2m	A14	6	.99/.45	—	—

Please see pages 7 – 10 for blade style.



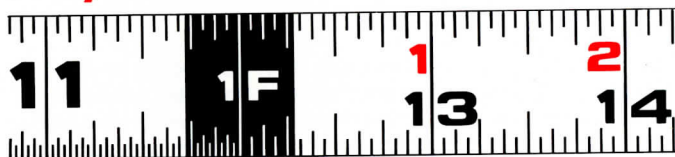
## How to change short tape blades



1. Pull old blade out past end until about 2 inches of bluish metal spring is exposed. Put a nail in round hole (A) in spring to hold it.
2. Note how old blade is attached, then remove it.
3. New blade is reverse wound, ready to attach to spring. With blade graduations up, turn spring sideways and insert from bottom into slot (B) in new blade. Twist spring and pull back until notches (C) lock at rear of slot (B).
4. Remove nail and return blade to case.

## Short tapes: blade styles A1 – A29

### A1 yellow clad



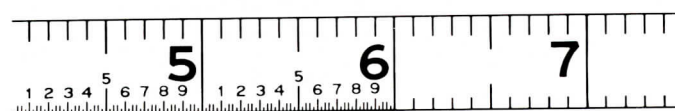
$\frac{1}{2}$ ",  $\frac{3}{4}$ " and 1" widths.  
Black and red markings one side only. Feet and inches to  $\frac{1}{8}$ ths top edge. Consecutive inches to  $\frac{1}{8}$ ths bottom edge; first 12 inches to  $\frac{1}{2}$ nds. Black color blocks designate feet. 16 inch centers are designated in red.

### A2 yellow clad



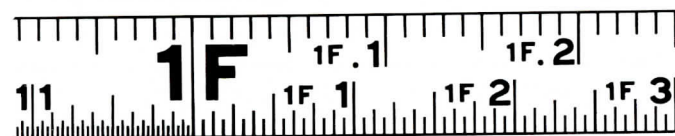
$\frac{3}{4}$ " and 1" widths.  
Black and red markings one side only. Feet and inches to  $\frac{1}{8}$ ths top edge. Consecutive inches to  $\frac{1}{8}$ ths bottom edge; first 12 inches to  $\frac{1}{2}$ nds. Color blocks designate feet and 16 inch centers.

### A3 chrome clad



$\frac{1}{2}$ " width only.  
Black markings one side only. Graduated to  $\frac{1}{10}$ ths of inches on both edges with the first 6 inches on lower edge, graduated to  $\frac{1}{50}$ ths.

### A4 yellow clad



$\frac{3}{4}$ " width only.  
Black markings one side only. Graduated feet,  $\frac{1}{10}$ ths and  $\frac{1}{100}$ ths on top edge; feet, inches and  $\frac{1}{8}$ ths on bottom edge. First 12 inches bottom edge to  $\frac{1}{32}$ nds.

### A5 yellow clad Engineer's



$\frac{3}{4}$ " / 19mm width only.  
Black markings one side only. Lower edge graduated feet,  $\frac{1}{10}$ ths, and  $\frac{1}{100}$ ths on top edge, upper edge graduated in consecutive millimeters.

### A6 yellow clad



$\frac{3}{4}$ " width only.  
Black and red markings one side only. Graduations read right to left and left to right. Both edges graduated feet and inches to  $\frac{1}{8}$ ths. Color blocks designate feet and 16 inch centers.

## A7 chrome clad



$\frac{1}{2}$ " width only.

Black markings, one side only. Graduated to  $\frac{1}{16}$ ths of inches on both edges with the first 6 inches on lower edge graduated to  $\frac{1}{50}$ ths.

## A8 chrome clad



$\frac{1}{2}$ " width only.

Black markings one side only. Graduated feet and  $\frac{1}{16}$ ths on top edge; feet and  $\frac{1}{16}$ ths on bottom edge. First 12 inches top edge to  $\frac{1}{32}$ nds.

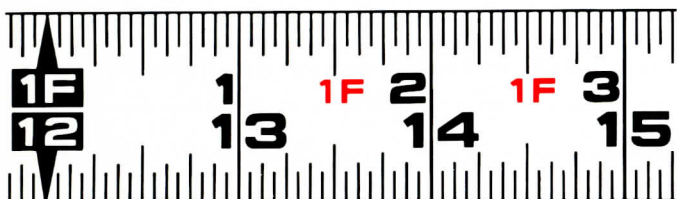
## A9 yellow clad and chrome clad



13mm and 19mm width.

Black and red markings on one side only. Both edges graduated to millimeters. Blade reads instantaneously with meter numbering within each decimeter. Every centimeter is numbered consecutively within each meter. Decimeter and meter numbers are red.

## A10 yellow clad



1" width only.

Black and red markings one side only. Feet and inches to  $\frac{1}{16}$ ths top edge. Consecutive inches to  $\frac{1}{16}$ ths bottom edge. Color blocks designate feet and 16 inch centers.

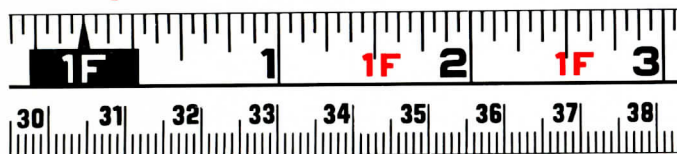
## A11 yellow clad and chrome clad



$\frac{1}{2}$ " / 13mm width only.

Black and red markings one side only. Upper edge graduated in feet and inches to  $\frac{1}{16}$ ths, first 12 inches to  $\frac{1}{32}$ nds. Lower edge graduated in millimeters, numbered centimeters.

## A12 yellow clad



$\frac{3}{4}$ " / 19mm width only.

Black and red markings one side only. Upper edge graduated in feet and inches to  $\frac{1}{16}$ ths, first 12 inches to  $\frac{1}{32}$ nds. Lower edge graduated in millimeters, numbered centimeters.

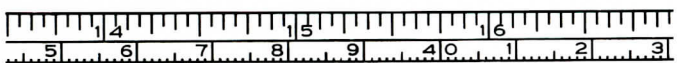
## A13 yellow clad



6mm width only.

Black and red markings on one side only. Graduated to millimeters on lower edge, numbered in centimeters. Red markings every 10 cm.

## A14 woven

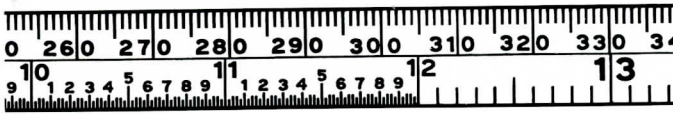


$\frac{1}{4}$ " / 6mm width only.

Black markings on one side only. Graduated feet and inches to  $\frac{1}{16}$ ths on top edge; lower edge graduated in millimeters, numbered centimeters.



## A15 yellow clad



$\frac{1}{2}$ " / 13mm width only.

Black markings one side only. Lower edge graduated in  $\frac{1}{16}$ ths (.02) of a foot for the first foot and  $\frac{1}{16}$ ths of inches the balance (120 inches). Top edge graduated in consecutive millimeters.

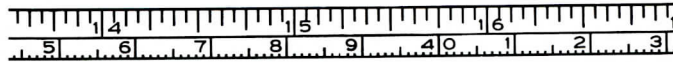
## A16 yellow clad



$\frac{1}{4}$ " width only.

Black and red markings one side only. Consecutive inches to  $\frac{1}{16}$ ths bottom edge; first 12 inches to  $\frac{1}{32}$ nds; 16 inch centers designated by diamond. Every 12th inch in red.

## A17 yellow clad



$\frac{1}{4}$ " / 6mm width only.

Black and red markings one side only. Upper edge graduated in inches to  $\frac{1}{16}$ ths; first 12 inches to  $\frac{1}{32}$ nds. Lower edge graduated in millimeters, numbered in centimeters.

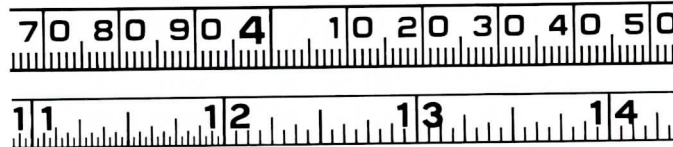
## A18 yellow clad



$\frac{1}{4}$ " width only.

Marked on both sides. Consecutive inches to  $\frac{1}{16}$ ths, first 12 inches to  $\frac{1}{32}$ nds on one side; diameter inches to  $\frac{1}{16}$ ths other side. Blank space ahead of zero.

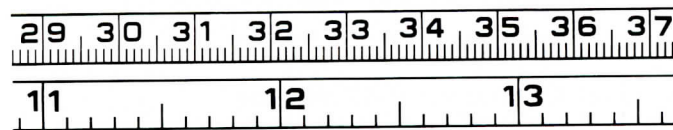
## A19 yellow clad



$\frac{1}{4}$ " width only.

Marked on both sides. Consecutive inches to  $\frac{1}{16}$ ths, first 12 inches to  $\frac{1}{32}$ nds on one side; diameter inches to  $\frac{1}{16}$ ths other side. Blank space ahead of zero.

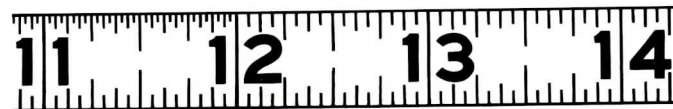
## A20 yellow clad



6mm width only.

Marked on both sides. Consecutive centimeters to millimeters one side; diameter to millimeters other side, numbered in centimeters.

## A21 chrome clad and nickel clad



$\frac{1}{2}$ " and  $\frac{5}{8}$ " widths.

Black markings one side only. Graduated consecutive inches to  $\frac{1}{16}$ ths, first 12 inches of top edge to  $\frac{1}{32}$ nds. 16 inch centers designated.

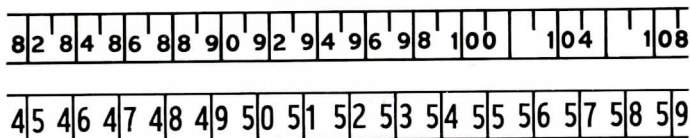
## A22 chrome clad



$\frac{1}{2}$ " / 13mm width only.

Black markings one side only. Graduated in consecutive inches to  $\frac{1}{16}$ ths, first 12 inches to  $\frac{1}{32}$ nds on lower edge. Top edge graduated in millimeters, numbered in centimeters.

## A23 yellow clad



$\frac{1}{4}$ " width only.

Black markings on both sides. One side marked  $\frac{1}{8}$  inch scale (1 to 240), other side has  $\frac{1}{16}$ th inch scale (1 to 480).

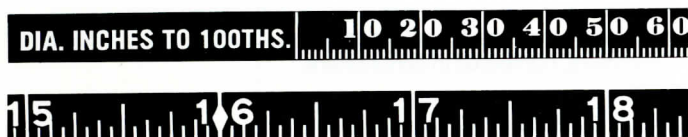
## A24 nubian



$\frac{1}{4}$ " width only.

Markings on both sides. One side graduated consecutive inches to  $\frac{1}{16}$ ths; other side diameter inches in  $\frac{1}{64}$ ths. Blank space ahead of zero.

## A25 nubian



$\frac{1}{4}$ " width only.

Markings on both sides. One side graduated consecutive inches to  $\frac{1}{16}$ ths; other side diameter inches in 100ths. Blank space ahead of zero.

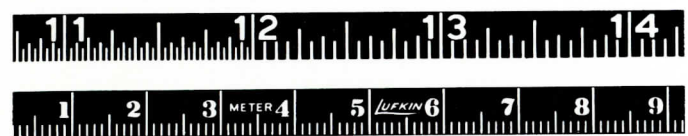
## A26 nubian



6mm width only.

Markings on both sides. One side graduated consecutive centimeters to millimeters; other side diameter to millimeters.

## A27 nubian



$\frac{1}{4}$ " / 6mm width only.

Marked on both sides. Millimeter one side; consecutive inches to  $\frac{1}{16}$ ths other side. Blank space ahead of zero.

## A28 yellow clad and chrome clad



$\frac{1}{2}$ " / 13mm,  $\frac{3}{4}$ " / 19mm and 1" / 27mm widths.

Markings one side only. System International metric one edge graduated to millimeters, numbered centimeters. English other edge to  $\frac{1}{16}$ ths, first foot to  $\frac{1}{2}$ nds, continuous inches. Feet and 10 cm marked in red.

## A29 yellow clad



13mm and 19mm widths.

Markings on one side only. System International metric one edge graduated to millimeters, numbered centimeters.



## Long tapes

### General information

Lufkin tapes and rules are manufactured to comply with U.S. Government Specifications Boards requirements for accuracy. Our bench mark standards are certified by the National Bureau of Standards.

Standard temperature for steel tapes is 20°C (68°F); Coefficient of expansion for steel tapes is 0.0000116 per degree Celsius/0.00000645 per degree Fahrenheit.

Standard tension for most long steel tapes, when fully supported throughout their entire length, is 50N (10 lbs. for English only tapes).

Surveyor's tapes of heavy gauge steel have a standard tension of 75N (10 lbs. for English up to 100 ft. long and 20 lbs. for English over 100 ft. long).

All Lufkin steel tapes have a clear abrasive resistant protection to provide wear and corrosion resistance.

### Long tapes

#### Prefixes

C—	Chrome clad
Y—	Yellow clad
H—	Hook ring at zero
R—	Replacement blade
CD—	Chrome clad derrick

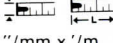
#### Suffixes

M—	Metric graduations
MM—	Metric graduations/millimeter numbering
MME—	Metric/English graduations
ME—	Metric/English graduations
D—	Feet/decimal feet graduations
DMM—	Feet/decimal feet/Metric graduations
B—	Feet/decimal feet with add-on leader
MB—	Metric with add-on leader
CM—	Metric graduations/centimeter numbering
CME—	Metric/English graduations

## Anchor



Chrome clad. Professional tradesman's quality tape, housed in a rugged, vinyl-covered steel case with large easy action plated metal winding drum and nylon friction washers. Nylon roller guides the tape smoothly in and out of the case. Available in  $\frac{3}{8}$ " / 10mm and up to 164' / 50m in length.

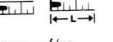
Cat. No.	N/S No.		Blade Style	Std. Pack	Pack Wt. lb/kg	Repl. Blade No.	N/S No.
C213	45140	$\frac{3}{8}$ " x 50'	B1	1	1.0/.48	OC213	45144
C216	45160	$\frac{3}{8}$ " x 100'	B1	1	1.7/.81	OC216	45164
C217	45665	$\frac{3}{8}$ " x 150'	B1	1	2.4/1.1	OC217	45741
C216 $\frac{1}{8}$ BLK	45167	$\frac{3}{8}$ " x 100'	B2	1	1.7/1.8	OC216 $\frac{1}{8}$ BLK	45168
C213C	45151	$\frac{3}{8}$ " x 600"	B3	1	1.0/.47	OC213C	45152
C213CX	45153	$\frac{3}{8}$ " x 600"	B4	1	1.0/.49	OC213CX	45154
C213D	45155	$\frac{3}{8}$ " x 50'	B5	1	1.0/.49	OC213D	45156
C216D	45169	$\frac{3}{8}$ " x 100'	B5	1	1.7/.80	OC216D	45170
HC216D	45173	$\frac{3}{8}$ " x 100'	B5	1	1.7/.80	—	—
C216DM	45162	$\frac{3}{8}$ " / 10mm x 100' / 30m	B6	1	1.8/.82	—	—

Please see pages 15—17 for blade styles.

## Leader®



Chrome clad. Sturdy, rust-resistant steel case has a tough, black vinyl cover. Nylon rollers guide the tape smoothly in and out of the case. Jet-black markings are bonded to the steel and recessed below the hard chrome surface, giving this tape line the best finish for resistance to wear, rust and heat. Fitted with a folding end hook ring.

Cat. No.	N/S No.		Blade Style	Std. Pack	Pack Wt. lb/kg	Repl. Blade No.	N/S No.
HC253*	45201	$\frac{3}{8}$ " x 50'	B1	1	.86/.39	OHC253	45202
HC256*	45206	$\frac{3}{8}$ " x 100'	B1	1	1.6/.72	OHC256	45207

The following tapes are available for export.

HC215MM	—	10mm x 15m	B17	1	.88/.40	RHC215MM	—
HC220MM	—	10mm x 20m	B17	1	1.2/.54	RHC220MM	—
HC230MM	—	10mm x 30m	B17	1	1.5/.68	RHC230MM	—
HC215MME	—	$\frac{3}{8}$ " / 10mm x 50' / 15m	B18	1	.88/.40	RHC215MME	—
HC220MME	—	$\frac{3}{8}$ " / 10mm x 66' / 20m	B18	1	1.2/.54	RHC220MME	—
HC230MME	—	$\frac{3}{8}$ " / 10mm x 100' / 30m	B18	1	1.5/.68	RHC230MME	—
HC253*	—	$\frac{3}{8}$ " x 50'	B1	1	.86/.39	RHC253	—
HC256*	—	$\frac{3}{8}$ " x 100'	B1	1	1.6/.72	RHC256	—

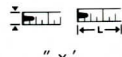
Please see pages 15—17 for blade styles.

\* Available in master carton of 24.

## Challenge



Nubian Stainless steel (S263). Case, drum assembly and etched tape line are designed to perform for years. Tape line is housed in a rugged, vinyl-covered steel case with a large, easy action, plated metal winding drum and nylon friction washers. Nylon rollers guide the tape smoothly in and out of the case. "T" in the suffix of the number denotes a tree tape which is fitted with a special claw hook designed for anchoring in tree bark when measuring diameter. "P" in suffix denotes diameter.

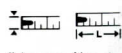
Cat. No.	N/S No.	 " x '	Blade Style	Std. Pack	Pack Wt. lb/kg	Repl. Blade No.	N/S No.
263P	45209	$\frac{3}{8}$ " x 50'	B11	1	.87/.39	0263P	45210
263TP	45211	$\frac{3}{8}$ " x 50'	B13	1	.91/.41	—	—
S263	45212	$\frac{3}{8}$ " x 50'	B10	1	—	—	—

Please see pages 15 – 17 for blade styles.

## Royal Ni-Clad



Nickel plated long steel tape housed in a rugged, vinyl-covered steel case with large easy action plated metal winding drum and nylon friction washers. Nylon rollers guide the tape smoothly in and out of the case. "H" prefix denotes product blade is fitted with a folding hook ring.

Cat. No.	N/S No.	 "/mm x ' /m	Blade Style	Std. Pack	Pack Wt. lb/kg	Repl. Blade No.	N/S No.
H433	45264	$\frac{3}{8}$ " x 50'	B1	1	—	OH433	45266
H436	45270	$\frac{3}{8}$ " x 100'	B1	1	10.6/4.8	OH436	45272

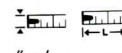
Please see pages 15 – 17 for blade styles.

## Speedwinder™

**New!**



The new Lufkin Speedwinder tape features a revolutionary new design concept that enables the user to extend, measure and rewind in less time than conventional long steel tape. Yellow clad tape line with easy-to-read bold black markings, protected by an abrasive resistant coating, stands up against rugged measuring. Impact-resistant, attractive, self-standing case.

Cat. No.	N/S No.	 " x '	Blade Style	Std. Pack	Pack Wt. lb/kg	Repl. Blade No.	N/S No.
HYT50	45815	$\frac{3}{8}$ " x 50'	B1	6	5.4/2.4	RHYT50	45817
HYT100	45816	$\frac{3}{8}$ " x 100'	B1	6	8.2/3.7	RHYT100	45818

Please see pages 15 – 17 for blade style.



## Banner



Yellow clad. Professional tradesman's quality tape is .008" / 0.2mm thick and housed in a rugged, vinyl-covered steel case with large easy action plated metal winding drum and nylon friction washers. Nylon rollers guide the tape smoothly in and out of the case. H prefix denotes product blade is fitted with a folding hook ring. Available in  $\frac{3}{8}$ " / 10mm width and up to 164' / 50m in length. Bold graduations with black and red numbers make for accurate measuring.

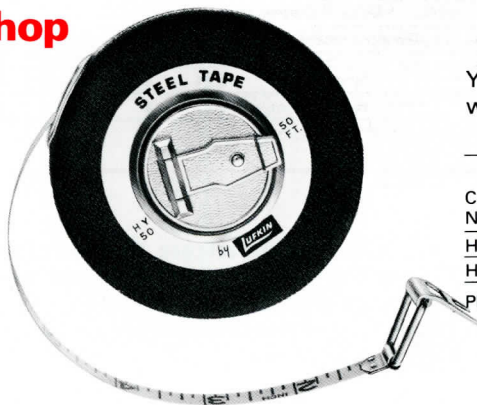
Cat. No.	N/S No.	$\frac{3}{8}$ " / 10mm x ' / m	Blade Style	Std. Pack	Pack Wt. lb/kg	Repl. Blade No.	N/S No.
HW223	45886	$\frac{3}{8}$ " x 50'	B1	6	6.5/2.9	OHW223	45889
HW223D	45890	$\frac{3}{8}$ " x 50'	B5	1	1.0/.48	OHW223D	45891
HW223ME	45888	$\frac{3}{8}$ " / 10mm x 50' / 15m	B9	1	1.0/.48	—	—
HW226	45894	$\frac{3}{8}$ " x 100'	B1	6	10.2/4.74	OHW226	45895
HW226D	45896	$\frac{3}{8}$ " x 100'	B5	1	1.7/.79	OHW226D	45891
HW226ME	45898	$\frac{3}{8}$ " / 10mm x 100' / 30m	B9	1	1.7/.79	—	—
HW227ME	45903	$\frac{3}{8}$ " / 10mm x 164' / 50m	B9	1	2.5/1.1	—	—

The following are available for export.

HW223	—	$\frac{3}{8}$ " x 50'	B1	6	6.5/2.9	RHW223	—
HW223D	—	$\frac{3}{8}$ " x 50'	B5	1	1.0/.48	RHW223D	—
HW226	—	$\frac{3}{8}$ " x 100'	B1	6	10.2/4.74	RHW226	—
HW226D	—	$\frac{3}{8}$ " x 100'	B5	1	1.7/.79	RHW226D	—
HY215CM	—	10mm x 15m	B20	1	1.1/.50	RHY215CM	—
HY220CM	—	10mm x 20m	B20	1	1.2/.54	RHY220CM	—
HY230CM	—	10mm x 30m	B20	1	1.6/.72	RHY230CM	—
HY250CM	—	10mm x 50m	B20	1	2.5/1.1	RHY250CM	—
HY215CME	—	$\frac{3}{8}$ " / 10mm x 50' / 15m	B19	1	1.1/.50	RHY215CME	—
HY220CME	—	$\frac{3}{8}$ " / 10mm x 66' / 20m	B19	1	1.2/.54	RHY220CME	—
HY230CME	—	$\frac{3}{8}$ " / 10mm x 100' / 30m	B19	1	1.8/.82	RHY230CME	—
HY250CME	—	$\frac{3}{8}$ " / 10mm x 164' / 50m	B19	1	2.3/1.0	RHY250CME	—

Please see pages 15—17 for blade styles.

## Home shop



Yellow clad. Vinyl covered steel case. Large easy action plated metal winding drum and nylon friction washers. Fitted with a folding hook ring.

Cat. No.	N/S No.	$\frac{3}{8}$ " / 10mm x ' / m	Blade Style	Std. Pack	Pack Wt. lb/kg	Repl. Blade No.	N/S No.
HY50	45882	$\frac{3}{8}$ " x 50'	B1	6	4.2/1.9	OHW50	45883
HY100	45884	$\frac{3}{8}$ " x 100'	B1	6	7.1/3.2	OHW100	45885

Please see pages 15—17 for blade style.

## Universal lightweight

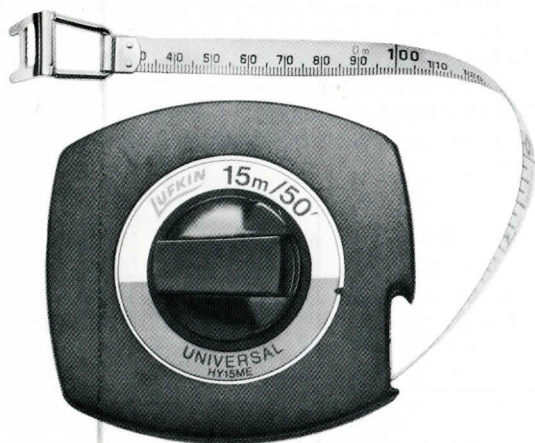


Yellow clad. High impact polystyrene case. Easy wind nylon drum. Hook ring is retained neatly in the contoured mouth of the case. Lightweight 0.005" / 0.13mm thick steel with easy-to-read black and red markings.

Cat. No.	N/S No.	$\frac{3}{8}$ " / 10mm x ' / m	Blade Style	Std. Pack	Pack Wt. lb/g	Repl. Blade No.	N/S No.
50	45068	$\frac{3}{8}$ " x 50'	B1	6	—	OY50	45071
100	45100	$\frac{3}{8}$ " x 100'	B1	6	—	OY100	45103

Please see pages 15—17 for blade style.

## Universal (export only)



Yellow clad. Lightweight 0.005" / 0.13mm thick steel with easy-to-read black and red markings on yellow background protected by an abrasive resistant coating. The high impact polystyrene case and nylon winding drum provide a smooth winding action. Hook ring is retained neatly in the contoured mouth of the case.

Cat. No.	N/S No.	" /mm x ' /m	Blade Style	Std. Pack	Pack Wt. lb/kg	Repl. Blade No.	N/S No.
HY50	—	$\frac{3}{8}$ " x 50'	B1	5	2.8/1.3	RHY50	—
HY100	—	$\frac{3}{8}$ " x 100'	B1	5	4.7/2.1	RHY100	—
HY15CME	—	$\frac{3}{8}$ " / 10mm x 50' / 15m	B19	5	2.8/1.3	RHY15CME	—
HY20CME	—	$\frac{3}{8}$ " / 10mm x 66' / 20m	B19	5	3.3/1.5	RHY20CME	—
HY30CME	—	$\frac{3}{8}$ " / 10mm x 100' / 30m	B19	5	4.7/2.1	RHY30CME	—
HY15CM	—	10mm x 15m	B19	5	2.8/1.3	RHY15CM	—
HY20CM	—	10mm x 20m	B20	5	3.3/1.5	RHY20CM	—
HY30CM	—	10mm x 30m	B20	5	4.7/2.1	RHY30CM	—

Please see pages 15 – 17 for blade styles.

## Artisan diameter and tree tapes



Chrome clad and nubian. Tapeline is 0.2mm thick, housed in a rugged, vinyl-covered steel case with a large easy action, plated metal winding drum and nylon friction washers. Nylon rollers guide the tape smoothly in and out of the case.

"T" in the suffix of the number denotes a tree tape which is fitted with a special claw hook designed for anchoring in tree bark. "P" in number suffix denotes diameter.

Cat. No.	N/S No.	" /mm x ' /m	Blade* Style	Std. Pack	Pack Wt. lb/kg	Repl. Blade No.	N/S No.
120TP	45110	$\frac{3}{8}$ " x 20'	B13	1	.56/.25	0120TP	45111
C120TP	45112	$\frac{3}{8}$ " x 20'	B13	1	.62/.28	OC120TP	45113
112P	45104	$\frac{3}{8}$ " x 144"	B14	1	.52/.23	0112P	45105
120P	45108	$\frac{3}{8}$ " x 240"	B14	1	.56/.25	0120P	45109

The following tapes are available for export.

C106PM	—	10mm x 6m	B21	1	.50/.23	RC106PM	—
C106TPM	—	10mm x 6m	B21	1	.50/.23	RC106TPM	—
C110TPM	—	10mm x 10m	B21	1	—	RC110TPM	—

Please see pages 15 – 17 for blade styles.

## Millmen's nubian



Nubian. Rugged, vinyl-covered steel case. One man can measure up to 240" or 300" with this tape especially designed for the mill or warehouse. Outstanding readability of raised marking on etched background. Specially designed U-shape hook fits over edge of sheet or tube for one man measurements.

Cat. No.	N/S No.	" /mm x ' /m	Blade Style	Std. Pack	Pack Wt. lb/kg	Repl. Blade No.	N/S No.
120CH	45106	$\frac{3}{8}$ " x 240"	B13	1	.56/.25	0120CH	45107
125CH	45114	$\frac{3}{8}$ " x 300"	B13	1	.59/.27	0125CH	45115

Please see pages 15 – 17 for blade styles.

## Pole tape



Used primarily by utilities, the pole tape is furnished only without a case. The extra heavy line has raised bright steel markings on a black, etched background. A single measuring gives both circumference and diameter by reading both sides of the tape.

Cat. No.	N/S No.	" /mm x ' /m	Blade Style	Std. Pack	Pack Wt. lb/kg	Repl. Blade No.	N/S No.
1P	45000	$\frac{1}{4}$ " x 6'	B14	1	.20/.09	—	—

Please see pages 15 – 17 for blade styles.



## Long steel tapes: blade styles B1 – B14

### B1 chrome clad, yellow clad and nickel clad



$\frac{3}{8}$ " width only.  
Black and red markings one side only. Graduated feet and inches to  $\frac{1}{8}$ ths with instantaneous readings. 16 inch centers are indicated by a diamond.

### B2 chrome clad



$\frac{3}{8}$ " width only.  
Black markings one side only. Graduated feet and inches to  $\frac{1}{8}$ ths with instantaneous reading. 16 inch centers are indicated by a diamond.

### B3 chrome clad



$\frac{3}{8}$ " width only.  
Black markings one side only. Graduated consecutive inches to  $\frac{1}{16}$ ths.

### B4 chrome clad



$\frac{3}{8}$ " width only.  
Black markings one side only. Graduated consecutive inches to  $\frac{1}{16}$ ths.

### B5 chrome clad and yellow clad



$\frac{3}{8}$ " width only.  
Black markings one side only. Graduations feet to  $\frac{1}{16}$ ths and  $\frac{1}{100}$ ths.

### B6 chrome clad



$\frac{3}{8}$ " / 10mm width only.  
Black and red markings on both sides. Graduated to  $\frac{1}{16}$ ths and  $\frac{1}{100}$ ths of feet on one side; other side graduated to millimeters, with instantaneous meter numbers at every 100mm.

### B7 chrome clad



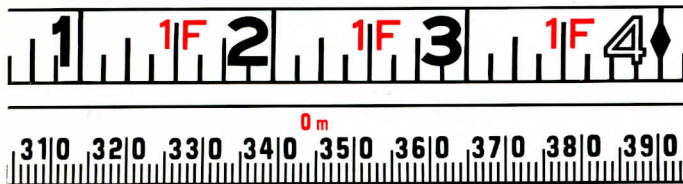
10mm widths only.  
Black markings one side only. Numbered in meters and millimeters, with instantaneous meter numbers at every 100mm.

### B8 chrome clad and nickel clad



$\frac{3}{8}$ " / 10mm width only.  
Black markings on both sides. One side graduated feet and inches to  $\frac{1}{8}$ ths with instantaneous readings; other side in millimeters with instantaneous meter numbers at every 100mm. Both sides have a blank space between end ring and zero.

## B9 yellow clad



$\frac{3}{8}$ " / 10mm width only.

Black and red markings on both sides. One side graduated feet and inches to  $\frac{1}{8}$ ths with instantaneous reading; other side graduated in consecutive millimeters with instantaneous meter numbers at every 100mm.

## B10 nubian



$\frac{3}{8}$ " width only.

Marked one side only. Graduated feet, inches and  $\frac{1}{8}$ ths.

## B11 nubian



$\frac{3}{8}$ " width only.

Marked on both sides. Graduated feet, inches and  $\frac{1}{8}$ ths one side; other side graduated diameter feet and inches.



## B12 nubian



$\frac{3}{8}$ " width only.

Marked on both sides. Graduated consecutive inches to  $\frac{1}{8}$ ths one side; other side to diameter feet and inches.



## B13 nubian



$\frac{3}{8}$ " width only.

Marked on both sides. Graduated  $\frac{1}{10}$ ths and  $\frac{1}{100}$ ths of feet; other side diameter feet and  $\frac{1}{10}$ ths of inches.

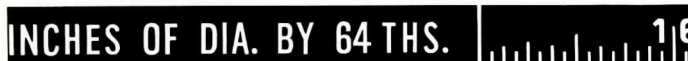


## B14 nubian



$\frac{1}{4}$ " width only.

Marked on both sides. Graduated to  $\frac{1}{16}$ ths of an inch, marked in consecutive inches; other side to diameter inches with an extra diameter inch before zero, marked to  $\frac{1}{8}$ ths.





## Long tapes: blade export tapes only

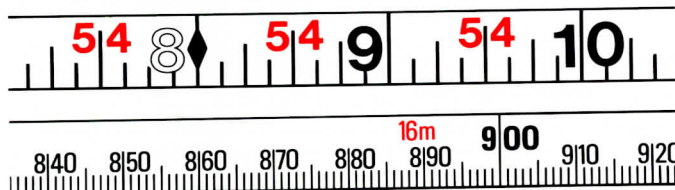
### B17 chrome clad



10mm width only.

Black and red markings on one side only. System International metric to millimeters. Numbered in meters and millimeters with instantaneous meter numbers in red at every 100mm.

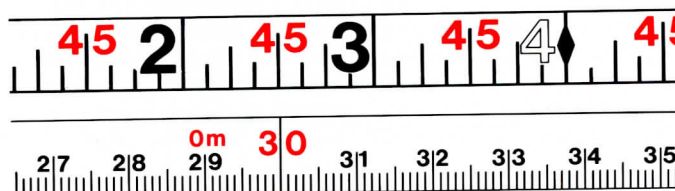
### B18 chrome clad



$\frac{3}{8}$ " / 10mm width only.

Black and red markings on both sides. One side graduated in metric to millimeters; the other side in feet, inches and  $\frac{1}{8}$ ths.

### B19 yellow clad



$\frac{3}{8}$ " / 10mm width only.

Black and red markings on both sides. One side graduated in feet and inches to  $\frac{1}{8}$ ths; other side in meters and millimeters numbered in centimeters.

### B20 yellow clad



10mm width only.

Black and red markings on side only. System International metric graduated to millimeters, numbered in centimeters.

### B21 chrome clad



Front for C106TPM and C106PM



Back for C106TPM, C106PM and C110TPM



Front for C110TPM

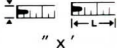
10mm width only.

Marked both sides. One side meters, decimeters and millimeters; other side reads diameter from circumference. C106PM and C106TPM to 2 meters of diameter in millimeters, C110TPM to 3 meters of diameter in centimeters.

# Logger's tape



Rugged, automatic rewind tape used in mills and logging operations. Reel has long durable spring that rewinds tape automatically when spring hook is released. Open side and enclosed working parts prevent dirt and sawdust from clogging reel mechanism. Sharp spike penetrates tree bark easily. Lightweight 0.13m steel tapeline has black and red easy-to-read markings on yellow background. Line graduated feet, inches and  $\frac{1}{8}$ ths, instantaneous reading, with foot markings and 16 inch centers designated.

Cat. No.	N/S No.	 " x ' "	Std. Pack	Pack Wt. lb/kg	Repl. Blade No.	N/S No.
LW23	45044	$\frac{1}{8}$ " x 50'	1	1.0/.47	OLW23	45045
LH4	45002	Repl. Spike		12/.05		

# Measuring wheel



To measure big jobs quickly and accurately, extend the folding handle, set to zero position on starting point, and start walking. Wheel counts as it measures, totals as it counts. Used by paving contractors, traffic engineers, police officials, landscapers, athletic departments. Used for measuring parking lots, laying out traffic lanes, sizing athletic fields, obtaining automobile accident details involving distances, etc. Indoor applications include measuring for floor covering, room sizes, etc. Has these helpful features:

1. Total distance shown in feet and inches.
2. Knob in center of wheel can be used to set to zero or to preset for desired distances.
3. Handle extends and locks at convenient 34" height; folds easily, compactly.
4. Clearly audible click every two feet permits running count by operator.
5. Loud bell sounds every 100 feet.
6. Traction is provided by two Neoprene tires, precisely ground to correct circumference. Wear-resistant to maintain accuracy during long life.
7. Fine quality leather case is included for storing wheel. With handle folded, wheel requires only 9" x 8" x 2" space.

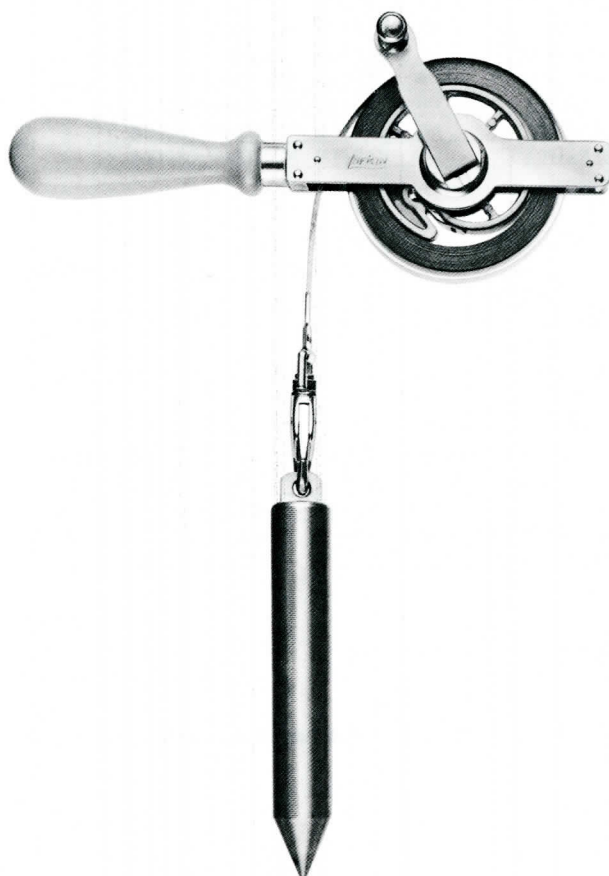
Cat. No.	N/S No.	lb/kg	Std. Pack
202	45133	3 $\frac{1}{2}$ /170	1



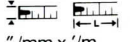
# Oil gaging long tapes

Available in two series, chrome clad for dark and heavy oils and nubian for light and clear oils. These tapes are made from heavy gage 13mm x 0.3mm/.500" x .012" steel and have a snap-swivel hook on the front end of the tape for attachment of the plumb bob. Reels, two arm for shorter lengths, four arm for 30m/100' lengths are ruggedly constructed with large drums and winding handles for quick and easy rewinding. The winding handle folds over for storage and to lock the tape position at any desired point. Plumb bobs are not supplied with tapes. Final part of catalog number (e.g. /590) denotes which style of bob the tape is made to accept.

## Atlas chrome clad



Black markings bonded to the steel and recessed beneath multiple layers of nickel and chrome electroplating to provide greater resistance to wear and corrosion. All tapes read right to left.

Cat. No.	N/S No.	 " /mm x ' /m	Blade Style	Pack Wt. lb/kg	Repl. Blade No.	N/S No.
C1290 $\frac{1}{2}$ S F/590	45406	$\frac{1}{2}$ " x 18'	D1	1.4/.67	OC1290 $\frac{1}{2}$ S F/590	45407
C1290S F/590	45410	$\frac{1}{2}$ " x 25'	D1	1.8/.82	OC1290S F/590	45411
C1291S F/590	45414	$\frac{1}{2}$ " x 33'	D1	1.9/.86	OC1291S F/590	45415
C1293S F/590	45425	$\frac{1}{2}$ " x 50'	D1	2.2/.99	OC1293S F/590	45426
C1294S F/590	45435	$\frac{1}{2}$ " x 66'	D1	2.5/1.1	OC1294S F/590	45436
C1295S F/590	45441	$\frac{1}{2}$ " x 75'	D1	2.6/1.2	OC1295S F/590	45442
C1296S F/590	45445	$\frac{1}{2}$ " x 100'	D1	2.5/1.1	OC1296S F/590	45446
C1293S F/587 $\frac{1}{2}$	45416	$\frac{1}{2}$ " x 50'	D1	2.2/.99	OC1293S F/587	45426
C1294S F/587 $\frac{1}{2}$	45429	$\frac{1}{2}$ " x 66'	D1	2.5/1.1	OC1294S F/587	45430
C1293SD F/590	45417	$\frac{1}{2}$ " x 50'	D2	2.2/.99	OC1293SD F/590	45418
C1294SD F/590	45744	$\frac{1}{2}$ " x 66'	D2	2.5/1.1	OC1294SD F/590	45745
C1293SME F/590	45422	$\frac{1}{2}$ " /13mm x 50'/15m	D3	2.1/.98	OC1293SME F/590	45427
C1294SME F/590	45437	$\frac{1}{2}$ " /13mm x 66'/20m	D3	2.4/1.1	OC1294SME F/590	45438
C1296SME F/590	45447	$\frac{1}{2}$ " /13mm x 100'/30m	D3	3.3/1.5	OC1296SME F/590	45448

The following tapes are available for export.

C1290S F/590	—	$\frac{1}{2}$ " x 25'	D1	1.8/.82	RC1290S/590	—
C1291S F/590	—	$\frac{1}{2}$ " x 33'	D1	1.9/.86	RC1291S/590	—
C1293S F/587 $\frac{1}{2}$	—	$\frac{1}{2}$ " x 50'	D1	2.2/.99	RC1293S/587	—
C1293S F/590	—	$\frac{1}{2}$ " x 50'	D1	2.2/.99	RC1293S/590	—
C1294S F/587 $\frac{1}{2}$	—	$\frac{1}{2}$ " x 66'	D1	2.5/1.1	RC1294S/587	—
C1294S F/590	—	$\frac{1}{2}$ " x 66'	D1	2.5/1.1	RC1294S/590	—
C1296S F/590	—	$\frac{1}{2}$ " x 100'	D1	2.5/1.1	RC1296S/590	—
C2910MME/590GM	—	$\frac{1}{2}$ " /13mm x 33'/10m	D5	1.8/.82	RC2910MME/590GM	—
C2915MME/590GM	—	$\frac{1}{2}$ " /13mm x 50'/15m	D5	2.2/.99	RC2915MME/590GM	—
C2920MME/590GM	—	$\frac{1}{2}$ " /13mm x 66'/20m	D5	2.6/1.2	RC2920MME/590GM	—
C2930MME/590GM	—	$\frac{1}{2}$ " /13mm x 100'/30m	D5	3.5/1.6	RC2930MME/590GM	—
C2910MM/590GM	—	13mm x 10m	D6	1.8/.82	RC2910MM/590GM	—
C2915MM/590GM	—	13mm x 15m	D6	2.2/.99	RC2915MM/590GM	—
C2920MM/590GM	—	13mm x 20m	D6	2.6/1.2	RC2920MM/590GM	—
C2930MM/590GM	—	13mm x 30m	D6	3.5/1.6	RC2930MM/590GM	—
C2910MM/150MM	—	13mm x 10m	D6	1.8/.82	RC2910MM/150MM	—
C2915MM/150MM	—	13mm x 15m	D6	2.2/.99	RC2915MM/150MM	—
C2920MM/150MM	—	13mm x 20m	D6	2.6/1.2	RC2920MM/150MM	—
C2930MM/150MM	—	13mm x 30m	D6	3.5/1.6	RC2930MM/150MM	—

Please see pages 20 – 21 for blade styles.

## Atlas nubian

The etched background of the Atlas nubian tape lines makes this series the choice for gaging clear oils. The heavy duty line is multiple plated for longer wear. The raised bright steel markings are clearly legible and protected by a flowed-on epoxy coating. All tapes read right to left.



Cat. No.	N/S No.	 " / mm x ' / m	Blade Style	Pack Wt. lb/kg	Repl. Blade No.	N/S No.
1290SF/590	45408	$\frac{1}{2}$ " x 25'	D1	1.6/.72	01290SF/590	45409
1291SF/590	45412	$\frac{1}{2}$ " x 33'	D1	1.7/.77	01291SF/590	45413
1293SF/590	45420	$\frac{1}{2}$ " x 50'	D1	2.2/.99	01293SF/590	45421
1294SF/590	45431	$\frac{1}{2}$ " x 66'	D1	2.4/1.1	01294SF/590	45432
1295SF/590	45439	$\frac{1}{2}$ " x 75'	D1	—	01295SF/590	45540
1293SME MEX F/590	45423	$\frac{1}{2}$ " / 13mm x 50' / 15m	D7	2.0/.95	01293SME MEX F/590	45424
1294SME MEX F/590	45433	$\frac{1}{2}$ " / 13mm x 66' / 20m	D7	2.4/1.1	01294SME MEX F/590	45434
1296SME F/590	45443	$\frac{1}{2}$ " / 13mm x 100' / 30m	D7	2.8/1.3	01296SME F/590	45444

The following tapes are available for export.

1290SF/590	—	$\frac{1}{2}$ " x 25'	D1	1.6/.72	R1290S/590	—
1291SF/590	—	$\frac{1}{2}$ " x 33'	D1	1.7/.77	R1291S/590	—
1293SF/590	—	$\frac{1}{2}$ " x 50'	D1	2.2/.99	R1293S/590	—
1294SF/590	—	$\frac{1}{2}$ " x 66'	D1	2.4/1.1	R1294S/590	—
2915MM/150MM	—	13mm x 15m	D6	1.5/.68	R2915MM/150MM	—
2915MM/590GM	—	13mm x 15m	D6	2.1/.95	R2915MM/590GM	—
2920MM/150MM	—	13mm x 20m	D6	2.3/1.0	R2920MM/150MM	—
2920MM/590GM	—	13mm x 20m	D6	2.3/1.0	R2920MM/590GM	—

Note: MEX in suffix stands for Mexican pattern.  
Please see pages 20—21 for blade styles.

## Atlas stainless steel

Cat. No.	N/S No.	" x '	Blade Style	Pack Wt. lb/kg	Repl. Blade No.	N/S No.
S1293F/590	45682	$\frac{1}{2}$ " x 50'	D1	1.8/.83	OS1293F/590	45428

Please see pages 20—21 for blade styles.

## Atlas oil gaging: blade styles D1—D6

### D1 chrome clad, stainless steel and nubian



$\frac{1}{2}$ " and  $\frac{3}{8}$ " widths.

Marked on one side only. Graduated instantaneous feet and inches to  $\frac{1}{8}$ ths.

### D2 chrome clad and nubian



$\frac{1}{2}$ " width only.

Marked on one side only. Graduated in feet to  $\frac{1}{10}$ ths and  $\frac{1}{100}$ ths of an inch. Reads left to right.

### D3 chrome clad and nubian



$\frac{1}{2}$ " / 13mm width only.

Marked on both sides. Graduated in millimeters on one side; other side instantaneous feet and inches to  $\frac{1}{8}$ ths.





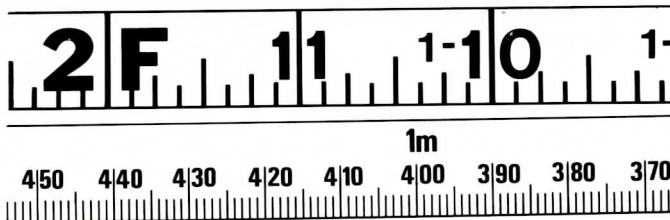
## D4 chrome clad and nubian



13mm width only.

Marked on one side only. Graduated in millimeters.

## D5 chrome clad



$\frac{1}{2}$ " / 13mm width only.

Marked on both sides. Graduated feet and inches to  $\frac{1}{8}$ ths, numbered right to left on one side; other side graduated meters to millimeters.

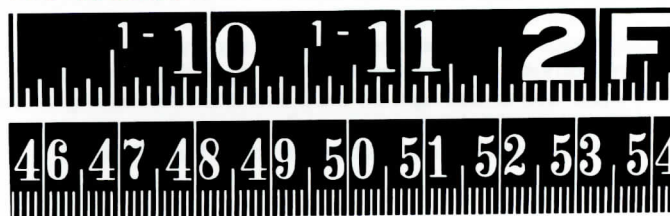
## D6 chrome clad



13mm width only.

Marked on one side only. Graduated meters to millimeters.

## D7 nubian



$\frac{1}{2}$ " / 13mm width only.

Marked on both sides. One side graduated feet and inches to  $\frac{1}{8}$ ths; other side graduated meters to millimeters.

## Plumb bobs

### Inage oil gaging plumb bobs



590 (45320). 20-ounce cylindrical shape solid brass bob with tapered point is  $1\frac{1}{4}$ " / 25mm in diameter and  $6\frac{3}{4}$ " / 171mm long overall. Bob face serrated for chalking. For use in heavy oils.

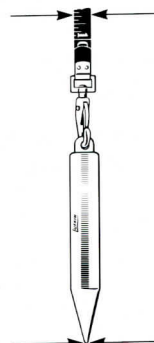
590A (45321). Same as 590 bob, except for removable screw tip point of Ampco metal, which is similar to brass but harder. (Extra tips available – specify TIP. f/590A (45322).

590G (45323). Same as 590 bob, except it is graduated in inches to  $\frac{1}{8}$ ths, reading upward (zero at lower end of point). Point is blunt.

590GM (45324). Same as 590G bob, except graduated millimeters with centimeters numbered.

588 (45319). 6-ounce cone-shaped solid brass bob is  $1\frac{1}{4}$ " / 32mm in diameter and  $2\frac{3}{8}$ " / 60mm long overall. Suitable for lighter oils, gasoline, etc.

## How to measure an inage plumb bob



Tapes cut and fitted with the swivel snap to be used with the 588 and 590 plumb bobs are known as inage gaging tapes. When the plumb bobs are assembled to the swivel snap the zero point is at the bottom of the plumb bob. When being used, the plumb bob and tape are lowered until the bob contacts the bottom of the tank. When the tape is reeled in, the liquid line is read on the tape line itself, thereby showing you the contents of the tank.

# Outage oil gaging plumb bobs

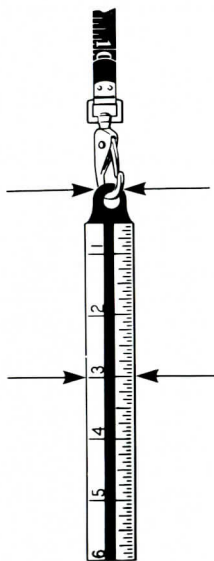


587½

587½(45318). ¾"/19mm square, 15-ounce solid brass bob. 6"/152mm long overall. Graduated in inches to ¼ths top to bottom. Zero falls inside the top of the hook eye. Eye milled from solid brass block (not removable). Reading taken same as on 587.

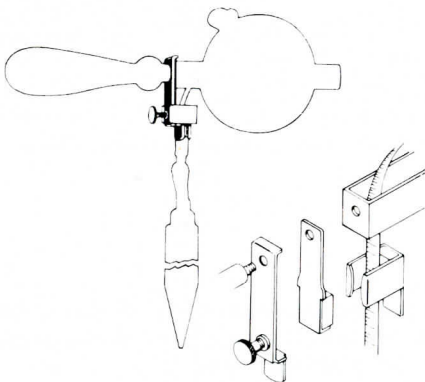
150MM (Export) 150mm long x 22mm square, weighs 540g. Face graduated by millimeters, recessed black strip for easier reading of oil line.

## How to measure with an outage plumb bob



Tapes which have the swivel snap fitted so as to accommodate the 587½ plumb bob are known as outage tapes. When the 587½ plumb bob is assembled to the tape line the zero point is at the intersection of the swivel snap and the plumb bob. When using outage gaging tapes the tape is lowered into the tank until the plumb bob just penetrates the liquid. The tape is then rewrapped and the liquid level is read right off the plumb bob. The reading on the plumb bob is added to the tape reading, giving the total outage (how much liquid has been removed from the tank).

## Tape wipers



The 599 tape wiper is designed primarily to remove oil from gaging tapes as they are reeled in. This helps keep the line in top condition. Tension on the wiping pads is regulated by a thumb screw. Increasing the tension holds the line at any desired point. Pads are replaceable and each unit is furnished with 6 extra pads.

The diagram shows the three parts of the wiper. From left to right: tape wiper bracket and spring plate, both on the handle side of the tape; tape wiper clip on the winding drum side of the tape.

1. Place clip over line, with lip extending downward.
2. Pass wiper bracket up through the clip, with thumb screw at the bottom.
3. Insert spring plate downward between bracket and tape line, with pad facing line. Attach wiper to reel by screwing wood handle through wiper into reel.

Cat. No.	N/S No.	Description
599	45329	Wipers
Pad 599	45330	Pads

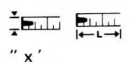


## Fiberglass tapes

### Linear fiberglass tapes



Durable tape made of 13mm/  $\frac{1}{2}$ " wide fiberglass linear tapes encapsulated in flexible plastic. Designed to resist stretch and extreme weather conditions. Non-conductive material with easy-to-read black and red markings on yellow background. Cases and reels manufactured from lightweight high impact polystyrene with winding drum to provide smooth tape recovery.

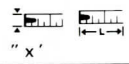
Cat. No.	N/S No.	 " x '	Blade Style	Shelf Pack	Pack Wt. lb/g	Repl. Blade No.	N/S No.
703	45352	$\frac{1}{2}$ " x 50'	E1	2	1.0/.45	0703	45353
706	45356	$\frac{1}{2}$ " x 100'	E1	2	1.50/.68	0706	45357
703D	45354	$\frac{1}{2}$ " x 50'	E2	2	1.0/.45	0703D	45355
706D	45358	$\frac{1}{2}$ " x 100'	E2	2	1.50/.68	0706D	45359

For blade styles, see below.

### Linear fiberglass reel tapes



Lightweight open reel is easy to handle and rewind, and line does not collect dirt in a case.

Cat. No.	N/S No.	 " x '	Blade Style	Shelf Pack	Pack Wt. lb/kg	Repl. Blade No.	N/S No.
1703	45462	$\frac{1}{2}$ " x 50'	E1	6	0.75/.34	0703	45353
1703D	45463	$\frac{1}{2}$ " x 50'	E2	6	2.00/.90	0703D	45355
1706	45464	$\frac{1}{2}$ " x 100'	E1	6	1.25/.56	0706	45357
1706D	45465	$\frac{1}{2}$ " x 100'	E2	6	2.25/1.02	0706D	45359
1707	45466	$\frac{1}{2}$ " x 150'	E1	2	2.25/1.02	01707	45467
1707D	45468	$\frac{1}{2}$ " x 150'	E2	2	2.75/1.24	01707D	45469
HY1715CM	45819	13mm x 15m	E3	6	0.75/.34	RHY1715CM	45822
HY1715CME	45825	$\frac{1}{2}$ " / 13mm x 50' / 15m	E3A	6	0.75/.34	RHY1715CME	45828
HY1720CM	45937	13mm x 20m	E3	6	1.19/.54	RHY1720CM	45938
HY1720CME	45846	$\frac{1}{2}$ " / 13mm x 60' / 20m	E3A	6	1.19/.54	RHY1720CME	45847
HY1730CM	45820	13mm x 30m	E3	6	1.25/.56	RHY1730CM	45823
HY1730CME	45826	$\frac{1}{2}$ " / 13mm x 100' / 30m	E3A	6	1.25/.56	RHY1730CME	45829
HY1750CM	45821	13mm x 50m	E3	2	2.25/1.02	RHY1750CM	45824
HY1750CME	45827	$\frac{1}{2}$ " / 13mm x 164' / 50m	E3A	2	2.25/1.02	RHY1750CME	45830
Y1715CM	45909	13mm x 15m	E3	6	0.75/.34	RY1715CM	45924
Y1715CME	45913	$\frac{1}{2}$ " / 13mm x 50' / 15m	E3A	6	0.75/.34	RY1715CME	45928
Y1720CM	45910	13mm x 20m	E3	6	1.19/.54	RY1720CM	45925
Y1720CME	45914	$\frac{1}{2}$ " / 13mm x 60' / 20m	E3A	6	1.19/.54	RY1720CME	45929
Y1730CM	45911	13mm x 30m	E3	6	1.25/.56	RY1730CM	45926
Y1730CME	45915	$\frac{1}{2}$ " / 13mm x 100' / 30m	E3A	6	1.25/.56	RY1730CME	45930
Y1750CM	45912	13mm x 50m	E3	2	2.25/1.02	RY1750CM	45927
Y1750CME	45916	$\frac{1}{2}$ " / 13mm x 164' / 50m	E3A	2	2.25/1.02	RY1750CME	45931

For blade styles, see below and page 24.

## Fiberglass tapes — blade styles E1—E3A

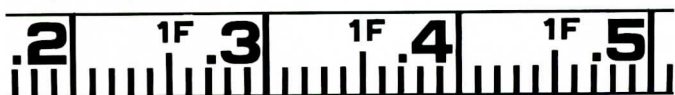
### E1 yellow clad



$\frac{1}{2}$ " width only.

Black and red markings on one side only. Graduated feet and inches to  $\frac{1}{8}$ ths. Numbered with feet and instantaneous feet markings in red and inches in black.

### E2 yellow clad



$\frac{1}{2}$ " width only.

Black and red markings on one side only. Graduated feet to  $\frac{1}{10}$ ths and  $\frac{1}{100}$ ths. Numbered with feet in red and  $\frac{1}{10}$ ths of feet in black.

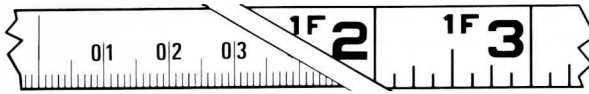
## E3 yellow clad



13mm wide width only.

Black and red markings on one side only. Graduated millimeters, numbered at each centimeter with red instantaneous meter number.

## E3A yellow clad



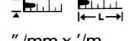
$\frac{1}{2}$ " / 13mm width only.

Black and red markings on both sides. One side graduated in millimeters, numbered centimeters with red instantaneous meter number; other side in feet, inches, and  $\frac{1}{16}$ ths, numbered at each inch with red instantaneous foot number.

## Hi Line woven tapes



Non-metallic .625" / 16mm wide Dacron tape for heavy duty use where non-conductivity and resistance to breakage are important, and where steel line accuracy is not required. Large easy-to-read black and red markings on white background. Steel case has extra heavy brown vinyl covering. All parts plated for corrosion resistance. Metal drum is electroplated. Nylon friction washers for smooth winding action. The 404L is graduated in links.

Cat. No.	N/S No.	 " / mm x ' / m	Blade Style	Pack Wt. lb/kg	Shelf Pack	Repl. Blade No.	N/S No.
403	45242	$\frac{5}{8}$ " x 50'	E4	1.0/.45	1	O403	45243
406	45254	$\frac{5}{8}$ " x 100'	E4	1.5/.68	1	O406	45255
H403	45247	$\frac{5}{8}$ " x 50'	E4	1.0/.45	1	OH403	45248
H406	45259	$\frac{5}{8}$ " x 100'	E4	1.5/.68	1	OH406	45260
404L	45252	$\frac{5}{8}$ " x 100L	E8	1.0/.45	1	O404L	45253
403D	45244	$\frac{5}{8}$ " x 50'	E5	1.0/.45	1	O403D	45245
406D	45256	$\frac{5}{8}$ " x 100'	E5	1.5/.68	1	O406D	45257
H403D	45249	$\frac{5}{8}$ " x 50'	E5	1.0/.45	1	OH403D	45250
H406D	45261	$\frac{5}{8}$ " x 100'	E5	1.5/.68	1	OH406D	45262
403ME	45246	$\frac{5}{8}$ " / 16mm x 50' / 15m	E6	1.0/.45	1	O403ME	45707
406ME	45258	$\frac{5}{8}$ " / 16mm x 100' / 30m	E6	1.8/.82	1	O406ME	45708

The following tapes are available for export only.


H403	—	$\frac{5}{8}$ " x 50'	E4	—	1	RH403	—
H406	—	$\frac{5}{8}$ " x 100'	E4	—	1	RH406	—
H403D	—	$\frac{5}{8}$ " x 50'	E5	—	1	RH403D	—
H406D	—	$\frac{5}{8}$ " x 100'	E5	—	1	RH406D	—
H1415M	—	$\frac{5}{8}$ " / 16mm x 15m	E7	.88/.40	1	RH1415M	—
H1430M	—	$\frac{5}{8}$ " / 16mm x 30m	E7	1.3/.59	1	RH1430M	—
H1450M	—	$\frac{5}{8}$ " / 16mm x 50m	E7	—	1	RH1450M	—
H1415ME	—	$\frac{5}{8}$ " / 16mm x 50' / 15m	E6	.88/.40	1	RH1415ME	—
H1430ME	—	$\frac{5}{8}$ " / 16mm x 100' / 30m	E6	1.3/.59	1	RH1430ME	—
H1450ME	—	$\frac{5}{8}$ " / 16mm x 150' / 50m	E6	—	1	RH1450ME	—

For blade styles, see below.

## 150 foot Hi Line



Same quality tape line as other Hi Line tapes shown except extra long 150' length. The disc reel is made of lightweight aluminum for easy handling.

Cat. No.	N/S No.	 " x '	Blade Style	Wt. each lb/kg	Repl. Blade No.	N/S No.	Shelf Pack
1407	45353	$\frac{5}{8}$ " x 150'	E4	3/1.36	01407	45454	1
1407D	45355	$\frac{5}{8}$ " x 150'	E4	3/1.36	01407D	45456	1

For blade styles, see below.

## Woven tapes—E4—E8 E4 white clad

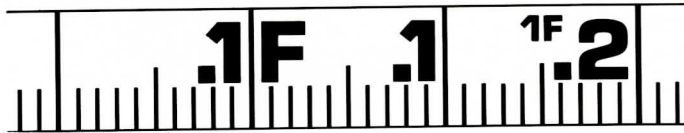


$\frac{5}{8}$ " and  $\frac{7}{8}$ " widths.

Black and red markings on one side only. Graduated feet and inches to  $\frac{1}{8}$ ths, red feet numbers and black inch numbers.



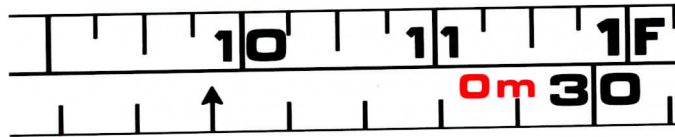
## E5 white clad



$\frac{5}{8}$ " and  $\frac{7}{8}$ " widths.

Black and red markings on one side only. Graduated feet to  $\frac{1}{10}$ ths and  $\frac{1}{100}$ ths, red feet numbers and black tenths of feet numbers.

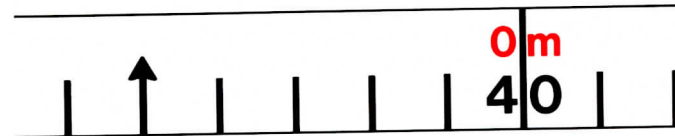
## E6 white clad



$\frac{5}{8}$ " / 16mm width only.

Black and red markings on one side only. Graduated meters to centimeters one edge, numbered at each decimeter with red meter number and black centimeter number. Other edge graduated feet and inches to quarters, red feet numbers and black inch numbers.

## E7 white clad



16m width only.

Black and red markings on one side only. Graduated meters to centimeters numbered at each decimeter with red meter number and black centimeter number.

## E8 white clad



$\frac{5}{8}$ " width only.

Graduated in links.

## Engineering and Surveying tapes

### Steel tape line accuracy

Lufkin steel tapes are made to government standards. Our bench standards for the United States are certified accurate by the United States Department of Commerce, National Bureau of Standards, Washington D.C. Tapes for Canada are made to Canadian government standards.

Temperature standard for steel tapes is 68°F, which equals 20°C. Coefficient of expansion of steel tapes is 0.00000645 per degree F; 0.0000116 per degree C. This amounts to 0.000645 foot or 0.00774 inch per degree F. on a 100-foot tape, and one-half as much on a 50-foot tape.

As a figure that is reasonably accurate and also easy to handle, it is customary on very long runs of pipe to allow  $\frac{1}{16}$  inch per 100 feet for each 10° change in temperature.



The above illustration shows, for a 100-foot tape, the actual length variations of temperature within the range of 20° below to 120° above zero F. The terminal graduation on the lower edge is at 68°, this being standard temperature. Furnished only when specified and at additional cost.

Standard tension for steel tapes 25 to 100 feet long (10 to 30 meters) supported entire length on a horizontal, flat surface, is 10 pounds (4.5 kilograms); for all tapes over 100 feet, 20 pounds. For steel tapes suspended horizontally and supported only at ends, there can be no set or standard tension for accuracy because of weight and other variations.

The following listings are averages of many tests made by the Bureau of Standards of Lufkin steel tapes supported throughout and supported ends only. These averages are taken from the experience of tests and should be used as a working basis only, and not to replace the test of any individual tape.

Width tape inches	Kind of tape	Tension of accuracy thru-out in lbs.	Supported ends only in lbs.
$\frac{1}{4}$	Chain Tapes	10	24
$\frac{1}{4}$	Engineer's (.012 inch) Tapes	10	18
$\frac{1}{4}$	Engineer's Extra Heavy Tapes	10	24
$\frac{3}{8}$ & $\frac{1}{2}$	Standard Weight Tapes	10	18

All tape lengths are 100 feet.

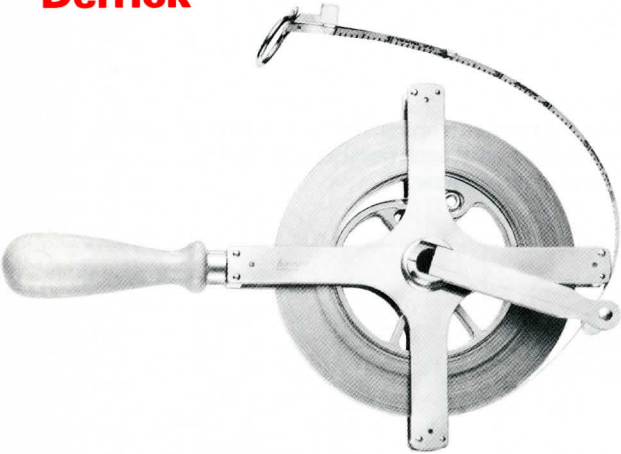
### NOTE:

Temperature and tension need to be taken into account only on precise work. We recommend a government test of tapes to be used for such work or for use as master standard. The U.S. Bureau of Standards makes a moderate charge for this test.


# Engineer's long tapes

Professional quality tapes designed for site layout and structural work. The .250"/6mm x .012" tapeline minimizes deflection in high winds. This, combined with easy-to-read markings bonded to the steel, recessed below the hard chrome surface and covered by abrasion resistant coating, provides a durable instrument for adverse site and weather conditions. Four arm reels of heavy gage electro-plated steel feature large winding drums and long winding handles which fold for storage and to provide a lock at any desired point. A temperature correction scale is packaged with each tape or refill. Celsius and millimeter graduations for metric tape (C579M) or Fahrenheit and inch graduations in English tapes (579).  
Note: See page 28 for details on reels.

## Derrick



Chrome clad. Fitted with a special hook ring with ribbed face at zero. Extra large winding drum provides rapid line recovery and permits tapeline to be easily detached from reel. A leather thong is provided to use through eye at rear end when tape is removed from reel.

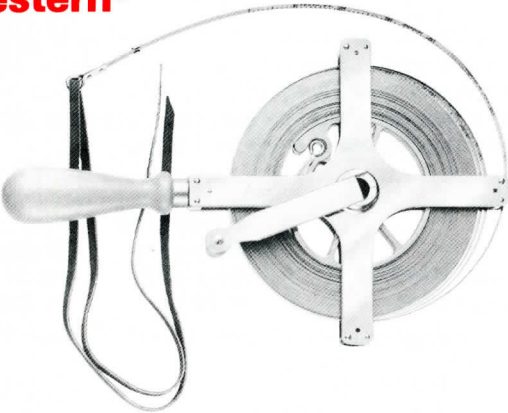
Cat. No.	N/S No.	 " /mm x ' /m	Blade Style	Wt. each lb/kg	Repl. Blade No.	N/S No.	Repl. Reel
C2276D	45471	$\frac{1}{4}$ " x 100'	E9	3.25/1.47	OC2276D	45472	12-150
C2276ME	45473	$\frac{1}{4}$ " /6mm x 100'/30m	E10	3.25/1.47	OC2276ME	45474	12-150
C2276M	45746	6mm x 30m	E11	3.25/1.47	OC2276M	45752	12-150

The following tapes are available for export only.

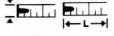
C2276D	—	$\frac{1}{4}$ " x 100'	E9	3.25/1.47	RC2276D	—	—
CD2730MM	—	6mm x 30m	E13	—	RCD2730MM	—	—
CD2730DMM	—	6mm x 30m	E14	—	RCD2730DMM	—	—
CD2750MM	—	6mm x 50m	E13	—	RDC2750MM	—	—
CD2730MME	—	$\frac{1}{4}$ " /6mm x 150'/50m	E15	—	RCD2730MME	—	—

Please see pages 27 & 28 for blade styles.

## Western®

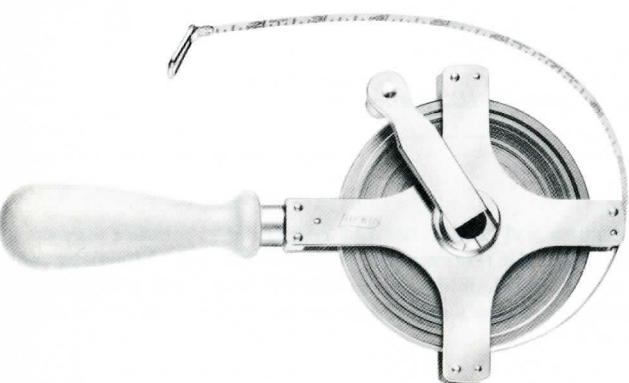


Chrome clad.  $\frac{1}{4}$ " /6mm wide and .015" thick line. Blank space at each end. Riveted, heavy plated brass end clips for holding thongs. Reel is nickel-plated, 4-arm with rollers in each arm for smooth winding. Oversize drum with long, one-piece winding handle for quick return of line. Turning handle over locks line at any desired position. A pair of 580T thongs and a 579 engineer's conversion rule are furnished with each tape or replacement line. To order reel only specify reel No. 12-150 for C1676D.

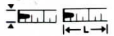
Cat. No.	N/S No.	 " x '	Blade Style	Wt. each lb/kg	Repl. Blade No.	N/S No.	Repl. Reel
C1676D	45458	$\frac{1}{4}$ " x 100'	E9	2.75/1.24	OC1676D	45459	12-150

Please see page 27 for blade style.

## Chrome clad®



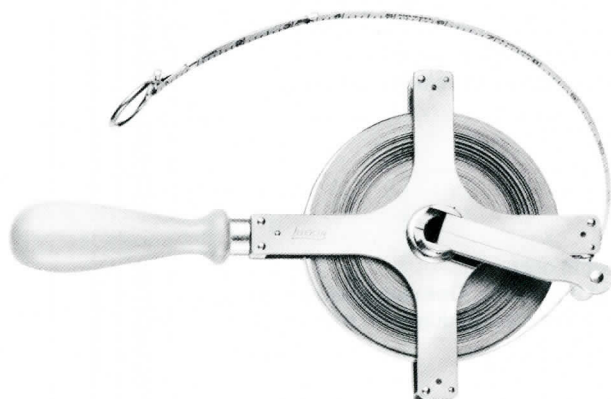
Chrome clad.  $\frac{3}{8}$ " /10mm wide and .008" thick. Instantaneous reading. Zero falls at outer end of ring. Reel is nickel-plated, 4-arm, with rollers in each arm for smooth winding. Long, easy-action winding handle that locks line in any position. Reel available separately.

Cat. No.	N/S No.	 " x '	Blade Style	Wt. each lb/kg	Repl. Blade No.	N/S No.	Repl. Reel
C1286	45400	$\frac{3}{8}$ " x 100'	E12	2.5/1.1	OC1286	45401	81-100
C1288	45404	$\frac{3}{8}$ " x 200'	E12	4.0/1.80	OC1288	45405	81-200
C1286D	45402	$\frac{3}{8}$ " x 100'	E9	2.25/1.02	OC1286D	45403	81-200

Please see pages 27 & 28 for blade styles.

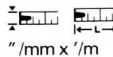


# Peerless



Chrome and yellow clad.  $\frac{1}{4}$ " /6mm wide and .012" thick line. Designed for engineers and surveyors who prefer a 4-arm reel. Line is subdivided throughout and is easily removed from the reel. Reel is nickel-plated, 4-arm, with rollers in each arm for smooth winding. Open design construction aids in drying line and clearing out dirt. Long, easy action winding handle locks line in any position. A pair of 580 finger rings and a 579 engineer's conversion rule are furnished with each tape complete or replacement line.

Reels also available separately.

Cat. No.	N/S No.	 " /mm x ' /m	Blade Style	Wt. lb/kg	Repl. Blade No.	N/S No.	Repl. Reel
C1276	45382	$\frac{1}{4}$ " x 100'	E12	2.75/1.24	OC1276	45383	11-100
C1278	45386	$\frac{1}{4}$ " x 200'	E12	4.25/1.93	OC1278	45387	11-200
C1279	45750	$\frac{1}{4}$ " x 300'	E12	6.00/2.72	OC1279	45751	11-300
C1276D	45384	$\frac{1}{4}$ " x 100'	E9	2.75/1.24	OC1276D	45385	11-100
C1278D	45388	$\frac{1}{4}$ " x 200'	E9	4.25/1.93	OC1278D	45389	11-200
C1279D	45773	$\frac{1}{4}$ " x 300'	E9	6.00/2.72	OC1279D	45774	11-300
Y1276	45779	$\frac{1}{4}$ " x 100'	E12	2.75/1.24	RY1276	45781	11-100
Y1278	45783	$\frac{1}{4}$ " x 200'	E12	4.25/1.93	RY1278	45785	11-200
Y1279	45787	$\frac{1}{4}$ " x 300'	E12	6.00/2.72	RY1279	45789	11-300
Y1276D	45780	$\frac{1}{4}$ " x 100'	E9	2.75/1.24	RY1276D	45782	11-100
Y1278D	45784	$\frac{1}{4}$ " x 200'	E9	4.25/1.99	RY1278D	45786	11-200
Y1279D	45788	$\frac{1}{4}$ " x 300'	E9	6.00/2.72	RY1279D	45790	11-300

The following tapes are available for export only.

C1276	—	$\frac{1}{4}$ " x 100'	E12	2.75/1.24	RC1276	—	11-100
C1278	—	$\frac{1}{4}$ " x 200'	E12	4.25/1.93	RC1278	—	11-200
C1276D	—	$\frac{1}{4}$ " x 100'	E9	2.75/1.24	RC1276D	—	11-100
C1278D	—	$\frac{1}{4}$ " x 200'	E9	4.25/1.93	RC1278D	—	11-200
C2730MM	—	6mm x 30m	E13	2.44/1.11	RC2730MM	—	11-100
C2750MM	—	6mm x 50m	E13	3.10/1.41	RC2750MM	—	11-200
C2730MME	—	$\frac{1}{4}$ " /6mm x 100'/30m	E15	2.38/1.08	RC2730MME	—	11-100
C2750MME	—	$\frac{1}{4}$ " /6mm x 164'/50m	E15	—	RC2750MME	—	11-200

For blade styles, see below and page 28.

## Engineer's long tapes: blade styles E9 to E15

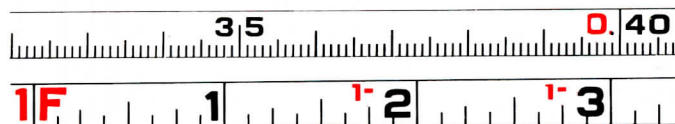
### E9 chrome clad and yellow clad



$\frac{1}{4}$ " and  $\frac{3}{8}$ " widths.

Markings on one side only. Graduated to feet,  $\frac{1}{10}$ ths and  $\frac{1}{100}$ ths with a blank space at each end.

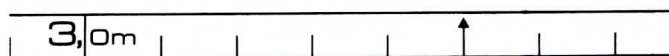
### E10 chrome clad



$\frac{1}{4}$ " /6mm width only.

Markings on both sides. One side graduated in millimeters; other side in feet, inches and  $\frac{1}{8}$ ths.

### E11 chrome clad



6mm width only.

Markings on one side only. Graduated in millimeters.

### E12 chrome clad and yellow clad



$\frac{1}{4}$ " and  $\frac{3}{8}$ " widths.

Black and red markings one side only. Graduated feet and inches to  $\frac{1}{8}$ ths with instantaneous readings. 16 inch centers are indicated by diamond symbol.

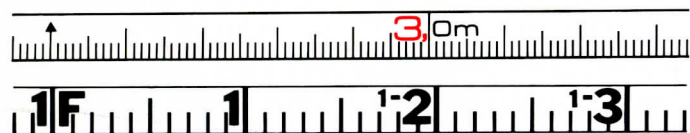
## E13 chrome clad



6mm width only.

Markings on one side only. Graduated meters to millimeters. Red meter numbers and black millimeter numbers at each decimeter.

## E14 chrome clad



$\frac{1}{4}$ " /6mm width only.

Markings on both sides. One side graduated meters to millimeters. Red meter numbers and black millimeter numbers at each decimeter; other side graduated in feet to  $\frac{1}{10}$ ths and  $\frac{1}{100}$ ths numbered feet and tenths black markings only.

## E15 chrome clad



$\frac{1}{4}$ " /6mm width only.

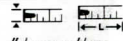
Markings on both sides. One side graduated in meters to millimeters; other side graduated in feet and inches to  $\frac{1}{8}$ ths.

## Replacement reels for gaging and engineer's tapes



For lengths up to 300'/100m.

4-arm reel, with rollers in each arm for smooth winding.

Cat. No.	N/S No.	 " /mm x ' /m
81-50	45090	$\frac{3}{8}$ " /9 $\frac{1}{2}$ mm x 50'/15m
81-100	45091	$\frac{3}{8}$ " /9 $\frac{1}{2}$ mm x 100'/30m
81-200	45092	$\frac{3}{8}$ " /9 $\frac{1}{2}$ mm x 205/60m
91-25	45095	$\frac{1}{2}$ " /12mm x 25'/7 $\frac{1}{2}$ m
91-50	45096	$\frac{1}{2}$ " /12mm x 50'/15m
91-75	45097	$\frac{1}{2}$ " /12mm x 75'/22 $\frac{1}{2}$ m
12-150	45033	$\frac{1}{4}$ " /6mm x 150'/50m
12-200	45034	$\frac{1}{4}$ " /6mm x 200'/60m
11-100	45027	$\frac{1}{4}$ " /6mm x 100'/30m
11-200	45028	$\frac{1}{4}$ " /6mm x 200'/60m
11-300	45029	$\frac{1}{4}$ " /6mm x 300'/100m



# Engineering and Surveying tapes

## Tapes without reels

Designed especially for engineering, surveying and other precise measuring such as route surveys, highways and railways, mining and survey work.

Heavy gage thick steel is used on all Lufkin chain tapes with markings raised against a hard chrome or black background and further protected by an abrasion resistant coating to provide longer life under the most adverse conditions. Each tape and refill is fitted with heavy gage end clips at each end for attachment to reel or tensioning devices and is supplied with 2 leather thongs and a temperature correction scale (Celsius for metric tapes, Fahrenheit for English tapes).


Reels: a choice of reels is available for each style tape. For complete descriptions of reels, see pages 31 and 32.

Please order reels separately.

## Peerless

Yellow clad.  $\frac{1}{4}$ " / 6mm wide and .015" / 0.12 thick.  
Blade graduated in feet,  $\frac{1}{10}$ ths and  $\frac{1}{100}$ ths feet.



Cat. No.	N/S No.	 " x "	Line Wt. lb/kg	Reqd. Reel
RY1676D	45791	$\frac{1}{4}$ " x 100'	1.17/0.53	31-100
RY1678D	45792	$\frac{1}{4}$ " x 200'	1.79/0.81	31-200
RY1679D	45793	$\frac{1}{4}$ " x 300'	3.32/1.50	31-300

## Super Hi-Way chrome clad



OC9100




OC9100B, OC9200B, OC9300B




.025" thick. Easy-to-read graduations are satin chrome against a black background. Railroad half-gage mark 2', 4 $\frac{1}{2}$ " from zero. The OC9100 line has a blank space at each end. First and last foot of each 100' length graduated to 10ths and 100ths of feet; the balance is graduated every foot. The OC9100B, OC9200B and OC9300B have a blank space at each end and an extra foot before zero, graduated to 10ths and 100ths of feet. Left hand balance of the line is marked every foot except that last foot of each 100' length is graduated to  $\frac{1}{100}$ ths of feet.

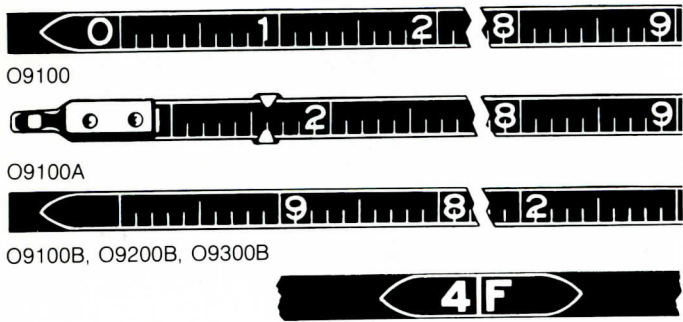
The OC9100M, OC9164M and OC9328M have a blank space at each end of line. Graduated at each 10th meter (dm) throughout with extra 10th meter before zero graduated right to left to millimeters.

Cat. No.	N/S No.	 "/mm x ' /m	Line Weight lb/kg	Reqd. Reel
OC9100B	45543	$\frac{5}{16}$ " x 100'	2 $\frac{1}{4}$ / 1.02	31-130
OC9200B	45547	$\frac{5}{16}$ " x 200'	4 / 1.80	61-200 or 31-200
OC9300B	45561	$\frac{5}{16}$ " x 300'	6 / 2.72	61-300 or 31-300
OC9100	45544	$\frac{5}{16}$ " x 100'	2 $\frac{1}{4}$ "/ 1.02	31-100
OC9100M	45743	8mm x 30m	2 $\frac{1}{4}$ "/ 1.02	31-100
OC9164M	45777	8mm x 50m	3 $\frac{3}{4}$ / 1.70	31-200
OC9328M	45778	8mm x 100m	6 $\frac{1}{4}$ / 2.83	31-300

The following engineering tapes complete with reel are available for export.

Cat. No.	N/S No.	 "/mm x ' /m	Repl. Reel	Pack lb/kg	Shelf Pack	Repl. Blade No.	N/S No.
C5030MB	—	8mm x 30m	31-100	2.8/1.27	1	RC5030MB	—
C5050MB	—	8mm x 50m	31-200	5.7/2.59	1	RC5050MB	—
C50100MB	—	8mm x 100m	31-300	8.75/3.94	1	RC50100MB	—
C9030MB	—	8mm x 30m	31-100	3.55/1.61	1	RC9030MB	—
C9050MB	—	8mm x 50m	31-200	6.5/2.94	1	RC9050MB	—
C90100MB	—	8mm x 100m	31-300	1.04/4.69	1	RC90100MB	—
C9100	—	$\frac{5}{16}$ " x 100'	31-100	3.55/1.61	1	RC9100	—
C9100B	—	$\frac{5}{16}$ " x 100'	31-100	3.55/1.61	1	RC9100B	—
C9200B	—	$\frac{5}{16}$ " x 200'	31-200	7.3/3.30	1	RC9200B	—
C9300B	—	$\frac{5}{16}$ " x 300'	31-300	9.8/4.42	1	RC9300B	—

Super Hi-way nubian




.025" thick, special analysis steel. Railroad half-gage mark is 2' 4½" from zero end.

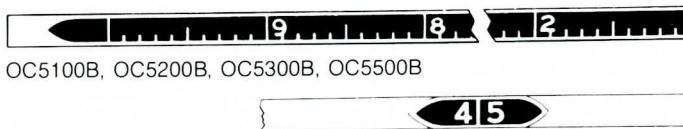
The O9100 line has a blank space at each end. The first and last foot of each 100' length is graduated to 1/10ths and 1/100ths of feet; the balance is graduated every foot.

The O9100A line begins and ends measurement at extreme outer ends of clips; first and last foot of each 100' length is graduated to 1/10ths and 1/100ths of feet. Balance is marked every foot.

The O9100B, O9200B and O9300B lines have a blank space at each end. Extra foot before zero is graduated right to left 1/10ths and 1/100ths. Balance is marked every foot except last foot of each 100' length, which is in 100ths of feet.

Cat. No.	N/S No.	 " x '	Line Weight lb/kg	Reqd. Reel
O9100	45541	5/8" x 100'	2 1/4/1.02	31-100
O9100A	45542	5/8" x 100'	2 1/4/1.02	31-100
O9100B	45543	5/8" x 100'	2 1/4/1.02	31-100
O9200B	45546	5/8" x 200'	4/1.80	31-200 or 61-200
O9300B	45559	5/8" x 300'	6/2.72	31-300 or 61-300


Pioneer chrome clad



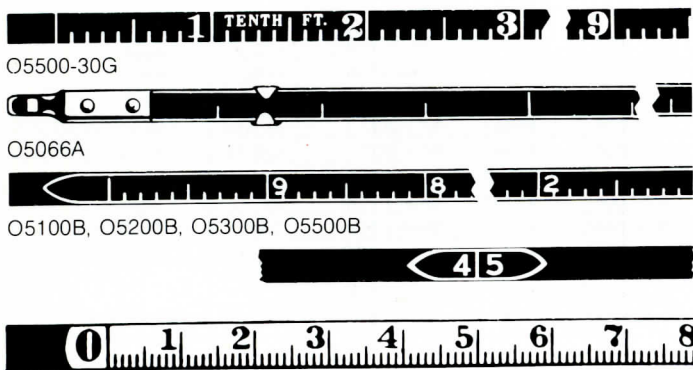
Lightweight and easy to handle. 1/4"/6mm wide and .020" thick. Catenary problems are minimized.

This line has blank space at each end and an extra foot before zero graduated right to left to 1/10ths and 1/100ths of feet. Balance graduated every foot except last foot of each 100' length is in 100ths.

Railroad half-gage mark 2' 4½" from zero end.

Cat. No.	N/S No.	 " x '	Line Weight lb/kg	Reqd. Reel
OC5100B	45490	1/4" x 100'	1 1/2/.68	31-100
OC5200B	45494	1/4" x 200'	3/1.36	31-200 or 61-200
OC5300B	45496	1/4" x 300'	4 1/2/2.04	31-300 or 61-300


Pioneer nubian



O5500-30G—first 30 feet graduated in feet, 1/10ths and 1/100ths of feet, instantaneous reading. O5066A is graduated in links and poles (rods) with end links in 1/10ths of link.

O5100B, O5200B, O5300B and O5500B lines have blank space at each end and an extra foot before zero graduated right to left to 1/10ths and 1/100ths of feet. Balance graduated every foot except last foot of each 100' length is in 100ths. Railroad half-gage mark 2' 4½" from zero end.

O5100M has metric graduations. The first and last decimeters are graduated in millimeters. The balance of the first and last meter is graduated in centimeters with the balance of the line graduated in decimeters. Available in 30, 50 and 100 metric lengths.

Cat. No.	N/S No.	 " /mm x ' /m	Line Weight lb/kg	Reqd. Reel
O5500-30G	45499	1/4" x 500'	7/3.17	61-500
O5066A	45485	1/4" x 100' links	1 1/2/.57	31-100
O5100B	45488	1/4" x 100'	1 1/2/.68	31-100
O5200B	45493	1/4" x 200'	3/1.36	31-200 or 61-200
O5300B	45495	1/4" x 300'	4 1/2/2.04	31-350 or 61-300
O5500B	45498	1/4" x 500'	7/3.17	51-500
O5100M	45489	6mm x 30m	1 1/2/.68	31-100




## Topographic trailer



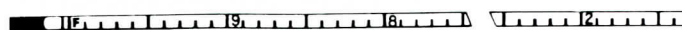
Lightweight, strong and accurate — the perfect tape for engineers and mappers for slope correction work.

Use topographic level to determine slope. Measure two chains on the slope and as many graduations on the trailer as the arc reading shows. This distance on the slope represents two chains of horizontal distance. Use the back of the tape to determine one chain horizontal distance.

The line is  $\frac{1}{4}$ " / 6mm wide and .020" thick. Permanent black markings are etched into the raised bright steel portion of the line. Line is  $2\frac{1}{2}$  chains (2 chains plus trailer) or 165 feet long. It is easily attached to the reel.


Cat. No.	N/S No.	 " x '	Line Weight lb/kg	Reqd. Reel
05165T	45492	$\frac{1}{4}$ " x 250 links $2\frac{1}{2}$ chains or 165'	2 $\frac{3}{4}$ /1.25	61-200

## Canyon



This lightweight, rugged tape,  $\frac{1}{8}$ " / 3mm wide and .025" thick, is extremely useful when minimum weight and wind resistance are important factors. Widely used in spanning bridges, valleys or canyons. Permanent black markings are etched into raised bright steel portion of line. Plated end clips are reinforced. Line attached easily to reel.

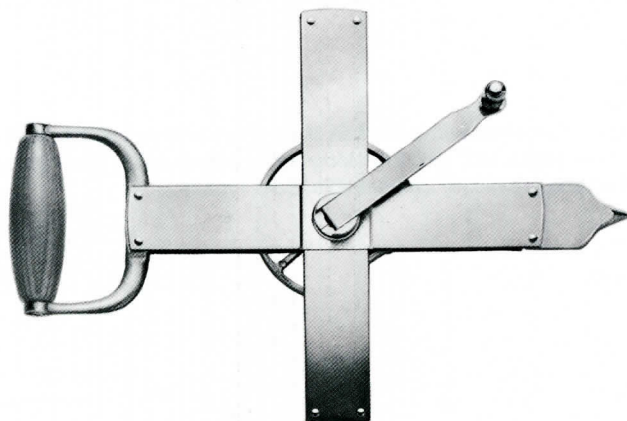
This line has blank space at each end and an extra foot before zero graduated right to left to  $\frac{1}{10}$ ths and  $\frac{1}{100}$ ths. Balance is marked every foot except last foot of each 100' length is graduated to  $\frac{1}{100}$ ths of feet.

Cat. No.	N/S No.	 " x '	Line Weight lb/kg	Reqd. Reel
04300B	45483	$\frac{1}{8}$ " x 300'	3 $\frac{1}{2}$ /1.59	41-300


## Reels for chain tapes

All reels are made of high quality nickel-plating and are fitted with an iridescent red hardwood handle. Open design construction aids in drying line and clearing out dirt. Long, easy-action winding handle locks line at any point.

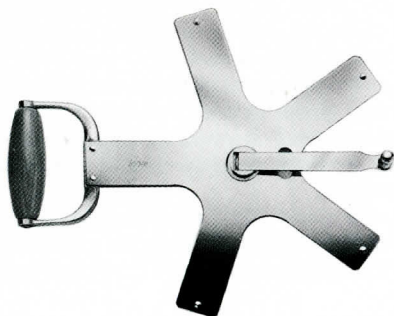
## 31 and 51 series reels




For tapes up to 500'/150m in length. 4-arm nickel-plated reel and spike end. Large drum for faster, easier rewinding. Tape easily attached to reel.

Cat. No.	N/S No.	 /mm x ' /m	Wt. each lb/kg	Shelf Pack
31-200	45053	$\frac{5}{16}$ " / 8mm x 200' / 60m	3.3/1.5	1
31-300	45054	$\frac{5}{16}$ " / 8mm x 300' / 100m	3.8/1.7	1
31-500	45055	$\frac{5}{16}$ " / 8mm x 500' / 150m	4.79/2.17	1
51-300	45072	$\frac{1}{4}$ " / 6mm x 300' / 100m	3.07/1.39	1

## 41 and 61 series reels



For tapes up to 500'/150m in length. Designed specifically for long, narrow tapes. Tapes easily attached to reel.

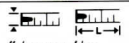
Cat. No.	N/S No.	 " /mm x ' /m	lb/kg	Shelf Pack
41-300	45060	$\frac{1}{8}$ " /3mm x 300'/100m	3.09/1.40	1
61-200	45075	$\frac{1}{4}$ " /6mm x $\frac{5}{8}$ " /8mm x 200'/60m	2.87/1.30	1
61-300	45076	$\frac{1}{4}$ " /6mm x $\frac{5}{8}$ " /8mm x 300'/100m	—	1
61-500	45077	$\frac{5}{8}$ " /8mm x $\frac{1}{4}$ " /6mm x 500'/150m	5.02/2.28	1

## 31 – 100 reels



For 100'/30m lengths only.

2-arm, nickel-plated reel. Tapes easily attached to reel.

Cat. No.	N/S No.	 " /mm x ' /m	Wt. each lb/kg	Shelf Pack
31-100	45051	$\frac{5}{8}$ " to $\frac{1}{4}$ " /8mm to 6mm x 100'/30m	1.3/.59	1

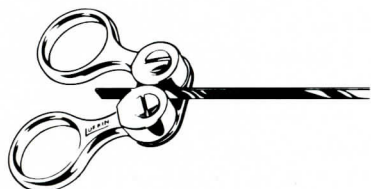
## Short and long tape accessories

### Detachable hooks 552 (45283)



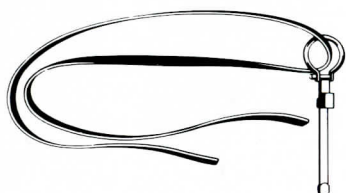
This hook, easily attached or removed from standard ring tape line, lets one man take measurements unassisted. Hook is brass, heavily nickel-plated. Serrated face grips firmly and releases easily. On tapes measuring from outer end of ring, zero falls at inside of hook. Popular for use on Anchor and Leader chrome clad tapes, and Banner and Royal Ni-Clad metric tapes. 552—for lines  $\frac{3}{8}$ " / 10mm wide.

## Tape clamp handle 584 (45314)



Used for quickly and positively gripping a steel tape at any point, and applying light or heavy tension. It is applied and removed by simply operating the handle. When used properly, it will not damage a tape in any way. Made of chrome-plated zinc alloy.

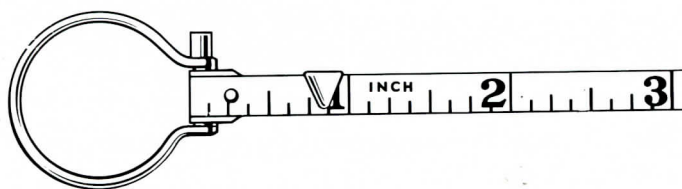
## Leather thongs 580T (45310)



Same as furnished with all Lufkin chain tapes and certain types of our other tapes. 36" /914mm long and  $\frac{1}{4}$ " /6mm wide. Chrome tanned and practically unbreakable. Sold in pairs.



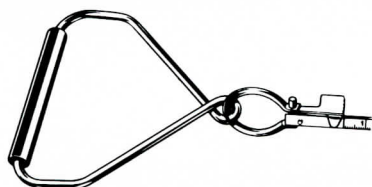
## Engineer's tape ring 580 (45306)



This ring, for  $\frac{1}{4}$ " / 6mm wide tapes only, is furnished in pairs with Wolverine engineer's and surveyor's tapes and Peerless chrome clad and Peerless nubian chain tapes.

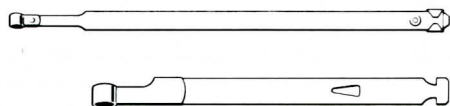
This sturdy, nickel-plated steel, round finger ring is  $1\frac{1}{8}$ " / 128mm in diameter. It swings on a hinge pin. Riveted to its lip is a steel supporting strip  $3\frac{1}{2}$ " / 89mm long. Ring is attached by sliding tape through ring guide lips and over pin or stud. It is also easy to detach last end ring when returning tape to reel. Ring does not interfere with reading of graduations. Zero point falls at the end of the line, as illustrated.

## Triangular tape handle 580E (45307)



This solid brass handle provides a comfortable grip for measuring with chain tapes. It is easily attached and removed from tape and clip. Can be used on  $\frac{1}{4}$ " / 6mm and  $\frac{3}{8}$ " / 8mm wide steel tapes.

## Tape fingers 580F (45308) & 580H (45309)

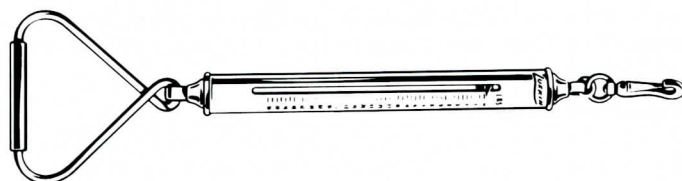


A tape finger is the bright metal connecting strip between drum assembly and steel tape line. Loop end of the finger engages a post on the drum; other end extends out of the case and attaches to the line.

580F –  $\frac{1}{4}$ " / 6mm wide, 7" / 178mm long. For C1276, C1278, 1279X, C1376D

580H –  $\frac{3}{8}$ " / 10mm wide,  $5\frac{3}{4}$ " / 146mm long. For attaching  $\frac{3}{8}$ " / 10mm wide steel tapes to cases. For C1286, C1288.

## Tape tension handles 586 (45315), 586D (45316)



For extremely accurate measurements, steel tapes should be used under proper tensions (see page 25). The tension handle is attached to one end of the tape and the proper tension is applied when the measurement is taken. When measuring with an unsupported line, tension handle should be used to counteract the effect of sag. Rustproof brass construction with black-filled etched graduations. Graduations begin at snap end and are easy to read when tension is applied.

586 – Capacity of 30 lbs. by  $\frac{1}{2}$  lbs. and 25 kg by .25 kg.

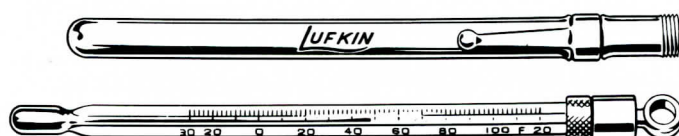
586D – Capacity of 50 lbs. by  $\frac{1}{2}$  lbs. and 30 kg by .25 kg.

## Engineer's conversion rule 579 (45305)



This 6" / 152mm conversion wood rule is included with all Lufkin engineer's and surveyor's tapes and chain tapes. It may also be purchased separately. Convenient, handy pocket size. Graduated one side lower edge inches to  $\frac{1}{16}$ ths of an inch, and upper edge  $\frac{1}{16}$ ths and  $\frac{1}{32}$ ths of feet. Other side is graduated on upper edge inches and  $\frac{1}{16}$ ths of inches; lower edge graduated with temperature correction scale for Lufkin 50 and 100 foot steel tapes.

## Pocket thermometers



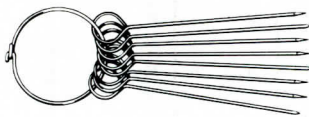
### Fahrenheit thermometer 583 (45313)

A high-quality thermometer furnished in a metal carrying case. An essential tool when measuring to extreme accuracy. Temperature range is from  $-30^{\circ}\text{F}$  to  $+120^{\circ}\text{F}$ , graduated in  $2^{\circ}$  increments. It is  $5\frac{1}{2}$ " / 140mm long and has pocket clip.

### Celsius thermometer 583C (45681)

Temperature range is from  $-40^{\circ}\text{C}$  to  $+50^{\circ}\text{C}$  graduated in  $1^{\circ}$  increments.

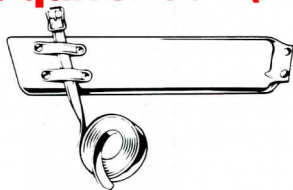
Surveyor's steel arrows 593-14 (45325)



Lufkin surveyor's arrows are made of  $\frac{3}{16}$ " /4.76 mm hardened round steel. 14" /356mm long. Furnished in sets of 11, the number required for each 1,000 feet when chaining with a 100-foot tape. Large eye for easier handling.

593 – Enameled alternately red and white, easy to locate in grass or brush.

Leather quiver 597 (45328)



Carrying quiver for 14-inch surveyors steel arrows is made of the best-quality sole leather. Designed and shaped for convenient carrying around the waist. Furnished with 48" leather belt.

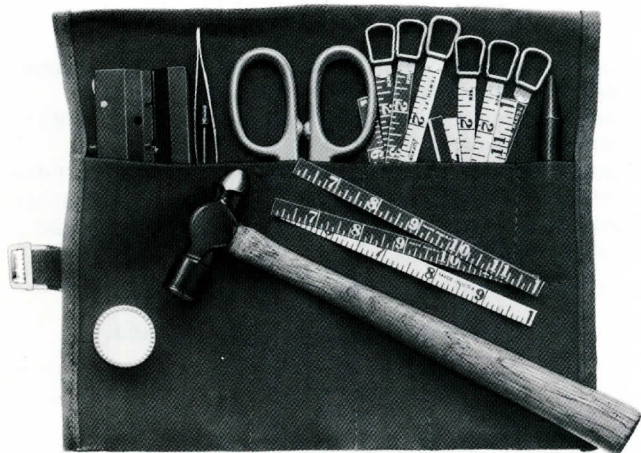
Carrying rings for surveyor's arrows 596 (45326) and 596A (45327)



596 – Made of  $\frac{3}{16}$ " /4.76mm round steel, 6" /152mm in diameter. White enameled finish.

596A – Made of  $\frac{3}{16}$ " /4.76mm round steel, chrome finish. Flat end for carrying arrows.

576 (45285) Tape repair kit



A sturdy, practical kit for splicing steel tapes of all kinds, widths and weights. Can be used to repair tape lines in the field. The steel punch block,  $2\frac{3}{8}$ " /54mm high, sits firmly on a  $\frac{7}{8}$ " /22mm x  $2\frac{3}{4}$ " /70mm base. The piercing punch has head for striking with hammer. Tap of hammer on fulcrum lever raises the punch. Face of block is notched and has tape slot and three sighting lines to simplify accurate locating of holes. The back has hardened, flush, inset riveting block. Piercing punch is readily removed and one extra punch is furnished. Packed in compact case, kit weighs 3 lbs. Folds and is held by the strap to size of 9" /225mm x  $3\frac{1}{2}$ " /89mm x  $1\frac{1}{2}$ " /38mm.

Instructions for use

Punch only one piece at a time. For matching to locating lines on punch block (when punching holes), always use same graduation on the tape to be repaired and the repair piece of tape. Follow closely further instructions given on the sheet packed with each kit.

576 and 576A tape repair kit contains these items in a compact carrying case

Punch and riveting block with piercing punch; cutting snips; riveting hammer; steel tape repair pieces of various kinds, widths, weights and markings, including chrome clad, nubian (black), with and without rings; rivet set, tweezers, extra piercing punch; 1 lot of solid steel rivets in a box.

Separate parts of 576 repair kit

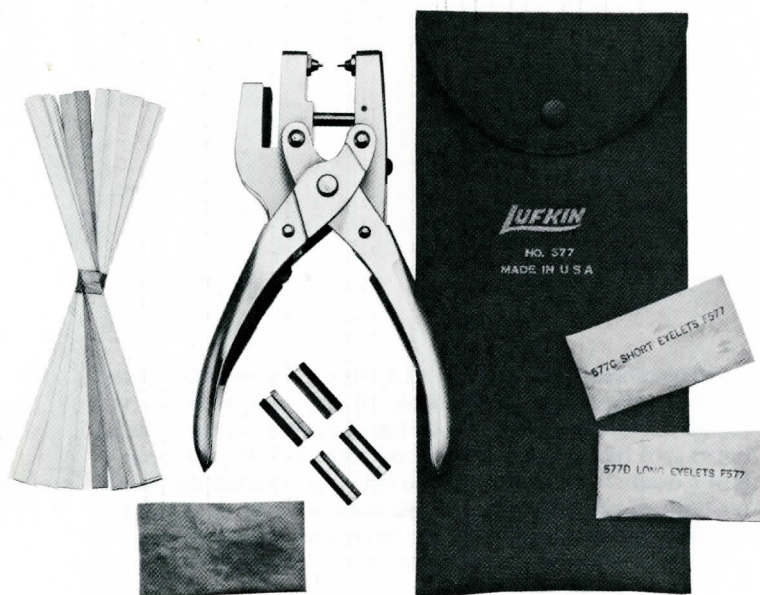
Qty.	Cat. No.	N/S No.	Description
1	—	—	Case (Duck)
1	576B	45287	Punch Block Complete (notched to show punch)
1	—	—	Hammer
1000	576D	45288	Rivets
1	576E	45289	Extra Punches
1	576F	45290	Rivet Set
1	—	—	Shears (Snips)
1	—	—	Tweezers
14	576G	45291	Tape Repair Pieces (Group 1)

Tape repair kit 576A (45286) to meet Mil-R-11567

Qty.	Cat. No.	N/S No.	Description
1	—	—	Case (Duck)
1	576B	45287	Punch Block Complete (notched to show punch)
1	—	—	Hammer
2	—	—	Extra Punches
1000	576D	45288	Rivets
1	576F	45290	Rivet Set
1	—	—	Shears (Snips)
1	—	—	Tweezers
31	—	—	Tape Repair Pieces (Group 11)
12	—	—	Eureka Sleeves (4 each $\frac{1}{4}$ " /6mm – $\frac{5}{16}$ " /8mm – $\frac{3}{8}$ " /10mm)



## Tape repair kit 578 (45799)



With this combination hand punch and splicing tool, secure and accurate splices with eyelets can be made on the job quickly, saving valuable time. Each 578 kit includes four Eureka repair sleeves (described below) which are better for repairing the heavier types of  $\frac{1}{4}$ "/6mm and  $\frac{5}{16}$ "/8mm tapes. Leatherette case with snap fastener keeps all items intact. Convenient to carry, it measures 3"/76mm x 9"/229mm and weighs  $\frac{3}{4}$  lb. when packed.

578 kit contains these items, in leatherette case: punch and eyeletting tool; supply of long and short eyelets; assortment of ungraduated steel tape pieces; 4 Eureka repair sleeves (2 each of  $\frac{1}{4}$ "/6mm and  $\frac{5}{16}$ "/8mm).

### Separate parts of 578 repair kit

Cat. No.	N/S No.	Description
578A	45800	Hand punch and eyeletting tool complete
577B	45293	Punch
577C	45294	Eyelets only, 500 short
577D	45295	Eyelets only, 500 long
578B	45801	Piercing punch and plate
578C	45802	Female and male set dies

## Eureka tape repair sleeves



All that is needed to splice a steel tape quickly is one of these sleeves and a match.

To weld sleeve to tape: (1) clean tape ends; hammer them if there is any burr; (2) butt broken ends together inside sleeve, taping sleeve unit tight; (3) burn match underneath sleeve, holding tape until cool.

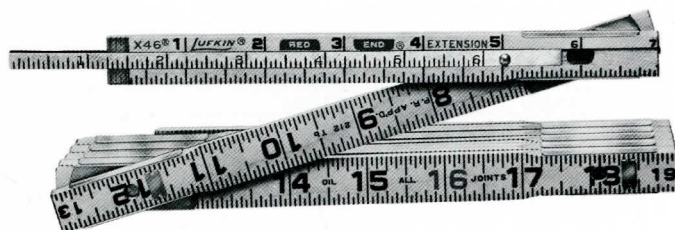
These thin, sheet metal sleeves are ready-coated with solder and flux. Twelve sleeves of one size are packed in a small, durable box with a piece of emery cloth. Directions in each box. Sleeves available as follows:

Cat. No.	N/S No.	Description
577K	45300	for $\frac{1}{8}$ "/3mm tapes
577M	45301	for $\frac{1}{4}$ "/6mm tapes
577P	45302	for $\frac{5}{16}$ "/8mm tapes
577R	45303	for $\frac{3}{8}$ "/10mm tapes
577T	45304	for $\frac{1}{2}$ "/13mm tapes


## Folding wood rules Red End® series

First choice of carpenters and other professional craftsmen. Boxwood finish wood section are 25% thicker than regular wood rules—will withstand hard daily usage. Bold red and black markings embedded in wood contrast sharply against white or natural finish background. Markings protected by clear abrasive resistant coating—will not chip, peel or discolor. Superior riveted lock joints are long wearing; brass plates are designed specifically to eliminate end play and retain accuracy. End caps and strike plates are solid brass to prevent wear.

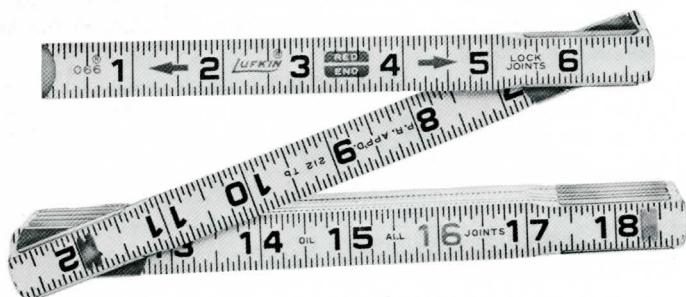
### Red End® extension



Graduated brass slide extends full 6 inches. Marked both sides and both edges to  $\frac{1}{16}$ ths of an inch, 16 inch stud centers in red, regular, outside markings. HX46 has sturdy folding brass plated hook; zero falls at inside of hook, permits measuring beyond arm's reach. X46F has flat, inside markings. Numbering begins on inside of rule; measurement lies close to the work. X46X has two 6-inch brass extension slides. No matter how the rule is unfolded an extension is ready for use on first section.

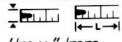
Cat. No.	N/S No.	 $\frac{1}{16}$ " /m x " /mm	lb/kg	Shelf Pack
X46	45062	6' x $\frac{5}{8}$ "	2.27/1.03	6
HX46	45065	6' x $\frac{5}{8}$ "	2.30/1.04	6
X48	45066	8' x $\frac{5}{8}$ "	2.95/1.34	6
HX48	45067	8' x $\frac{5}{8}$ "	3.01/1.37	6
X46F	45063	6' x $\frac{5}{8}$ "	2.28/1.03	6
X46X	45064	6' x $\frac{5}{8}$ "	2.39/1.08	6

### Red End®



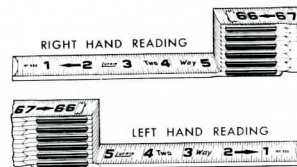
Marked both sides, both edges to  $\frac{1}{16}$ ths; 16 inch stud centers in red. Regular outside reading. Zero falls on inside of hook, permits measuring beyond arm's reach.

O66F has inside markings. Numbering begins on inside of rule; measurement lies close to the work.

Cat. No.	N/S No.	 $\frac{1}{16}$ " /m x " /mm	lb/kg	Shelf Pack
O66	45084	6' x $\frac{5}{8}$ "	1.68/0.76	6
O66F	45086	6' x $\frac{5}{8}$ "	1.64/0.74	6
O68	45088	8' x $\frac{5}{8}$ "	2.27/1.03	6
O68F	45089	8' x $\frac{5}{8}$ "	2.27/1.03	6



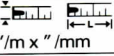
## Red End® – Two Way®



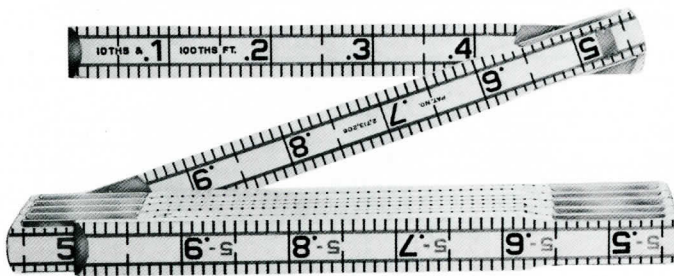
For measuring left to right and right to left. Flat, inside markings lie close to the work. 966 marked both sides, both edges in feet, inches and  $\frac{1}{8}$ ths.

966CM marked both sides, inside flat from left or right in millimeters, and numbered centimeters.

062CME marked both sides, outside graduated decimeters to millimeters, and numbered centimeters. Lower edge of lath and inside graduated consecutive inches to  $\frac{1}{8}$ ths on upper edge. 062CM graduated in millimeters, numbered centimeters.

Cat. No.	N/S No.	 'm x " /mm	Pack wt. lb/kg	Shelf Pack
966	45375	6' x $\frac{5}{8}$ "	1.7/.77	6
966CM	45844	2m x 16mm	1.7/.77	6
062CME	45840	6' / 2m x $\frac{5}{8}$ " / 16mm	1.7/.77	6
062CM	45839	2m x 16mm	1.7/.77	6

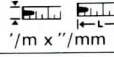
## Red End® engineer's



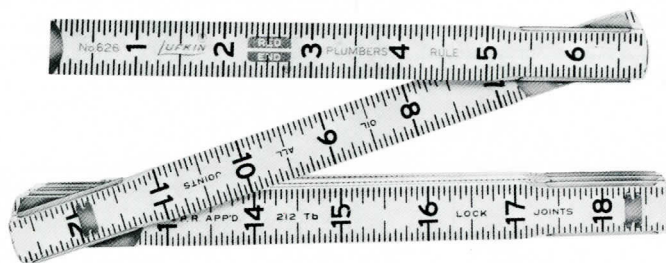
066D and 1066D graduated in feet,  $\frac{1}{16}$ ths and  $\frac{1}{32}$ ths feet. Regular outside markings in feet, inches and  $\frac{1}{8}$ ths. Red foot figures.

Decimal points on engineer's scale prevent reading errors.

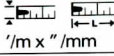
062CMD graduated in millimeters, numbered centimeters one side, other side graduated decimal  $\frac{1}{16}$ ths of feet.

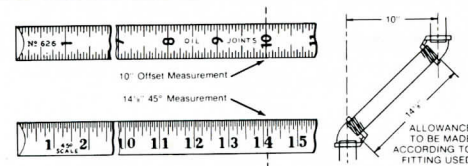
Cat. No.	N/S No.	 'm x " /mm	Pack Wt. lb/kg	Shelf Pack
062CMD	45841	6' / 2m x $\frac{5}{8}$ " / 16mm	1.7/.77	6
066D	45085	6' x $\frac{5}{8}$ " / 16mm	1.7/.77	6
1066D	45376	6' x $\frac{5}{8}$ " / 16mm	2.27/1.03	6
1066CMD	45845	6' / 2m x $\frac{5}{8}$ " / 16mm	2.27/1.03	6

## Red End® plumber's

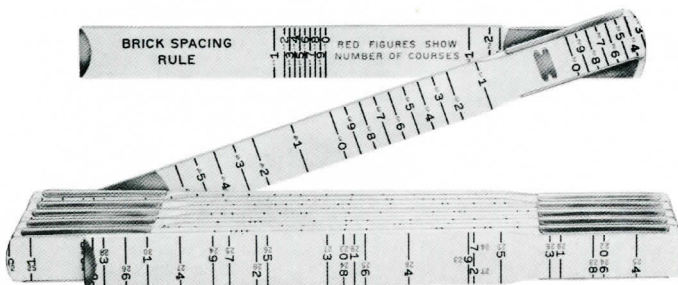


Regular outside markings in black, vertical, consecutive inches to  $\frac{1}{8}$ ths, both edges. Flat inside markings in red, 45° scale, inches to  $\frac{1}{8}$ ths upper edge only.

Cat. No.	N/S No.	 'm x " /mm	Pack Wt. lb/kg	Shelf Pack
626	45343	6' x $\frac{5}{8}$ "	1.7/.77	6

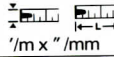


## Red End® brick mason's

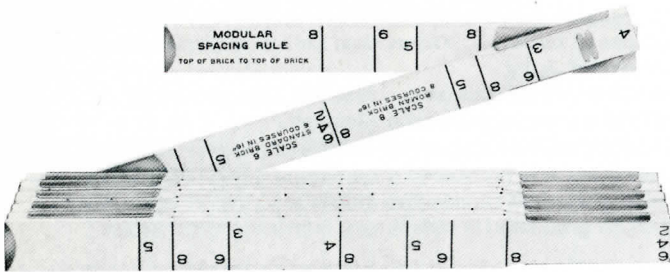


Used by bricklayers for spacing brick courses. Regular outside markings in black, vertical, consecutive inches to  $\frac{1}{8}$ ths, both edges.

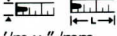
Brick mason's scale on inside – red course counters numbered consecutively.

Cat. No.	N/S No.	 'm x " /mm	Pack Wt. lb/kg	Shelf Pack
636	45344	6' x $\frac{5}{8}$ "	2.27/1.03	6

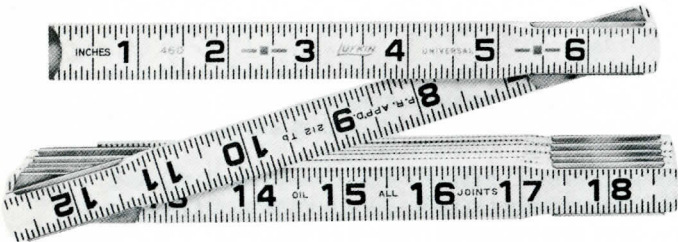
Red End® modular spacing



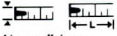
Designed for masonry work such as laying concrete and glass blocks, facing tile and special brick. Outside graduated on both edges in consecutive inches to  $\frac{1}{8}$ ths, 16 inch centers in red. Inside readings marked in 6 scales for various types of block and brick on a 16 inch module.

Cat. No.	N/S No.	 '/m x "/mm	Pack Wt. lb/kg	Shelf Pack
646	45345	6' x $\frac{5}{8}$ "	2.27/1.03	6

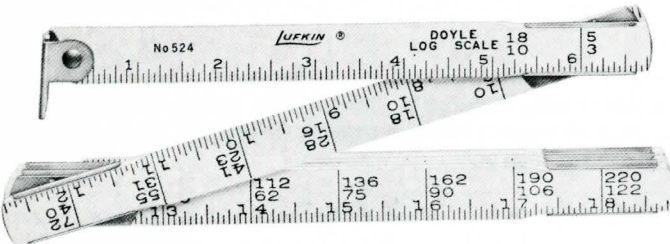
Home shop universal




Ends are finished and sealed. Spring joints and end caps are brass plated steel. 460 and 460F both graduated consecutive inches to  $\frac{1}{8}$ ths on both edges and sides. 460 has regular markings; numbering is on outside of rule. 460F has flat markings; numbering is on inside of rule. 460CM—outside reading, graduated in millimeters, numbered centimeters. 460CME—outside reading, graduated millimeters, numbered centimeters one side, inches on other side.

Cat. No.	N/S No.	 '/m x "/mm	Pack Wt. lb/kg	Shelf Pack
460	45277	6' x $\frac{5}{8}$ "	1.7/.77	6
460F	45278	6' x $\frac{5}{8}$ "	1.7/.77	6
460CM	45842	2m x 16mm	1.7/.77	6
460CME	45843	6'/2m x $\frac{5}{8}$ " / 16mm	1.7/.77	6

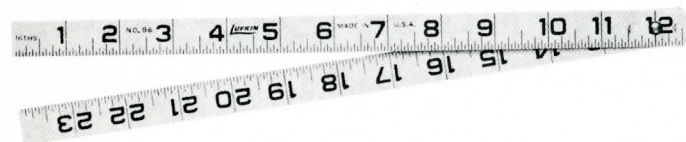
Doyle log scale



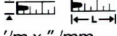
Hardwood section with ends finished and sealed. Folding hook, lock joints and end caps are brass plated steel. Marked outside for 10 and 18 foot logs, lower edge consecutive inches to  $\frac{1}{8}$ ths. Marked inside for 12, 14 and 16 foot logs.

Cat. No.	N/S No.	 " x "/mm	Pack Wt. lb/kg	Shelf Pack
524	45282	48" x $\frac{5}{8}$ "	1.13/0.51	1

Steel blacksmith's rules

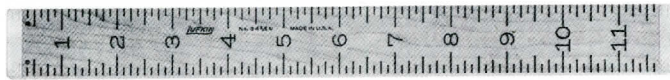


This 2-foot, 2-fold rule is made of tempered steel,  $\frac{3}{4}$ " wide,  $\frac{1}{32}$ " thick. Deeply etched black markings are legible and permanent. Riveted joints have large side washers and a stop, bringing rule to a firm stop when opened straight. The lower edge on one side graduated to  $\frac{1}{8}$ ths of an inch, upper edge on other side to  $\frac{1}{4}$ ths, lower edge 75 circumference inches to  $\frac{1}{8}$ ths for converting diameters directly to circumference measurements.

Cat. No.	N/S No.	 '/m x "/mm	Pack Wt. lb/kg	Shelf Pack
86	45660	2' x $\frac{3}{4}$ "	1.85/0.84	12



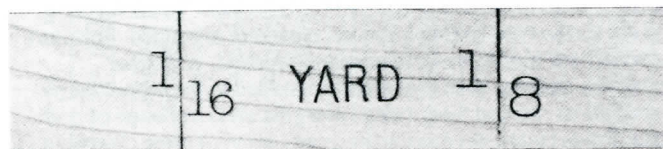
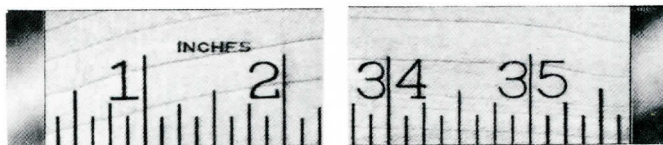
## Bench rules



One piece, selected hardwood, well seasoned. Tough, clear coating protects natural finish. Bold markings are embedded in the wood. Brass end caps prevent wear. Large graduations, inches numbered vertically top to bottom; opposite sides read from opposite ends. Marked both sides, both edges, one side in  $\frac{1}{8}$ ths, other side in  $\frac{1}{16}$ ths.

Cat. No.	N/S No.	" x " x "	Pack Wt. lb/kg	Shelf Pack
34 $\frac{1}{4}$ V	45058	$\frac{1}{4}$ " x $1\frac{1}{4}$ " x 12"	1.40/0.64	12
34V	45057	$\frac{1}{4}$ " x $1\frac{1}{4}$ " x 24"	2.65/1.20	12

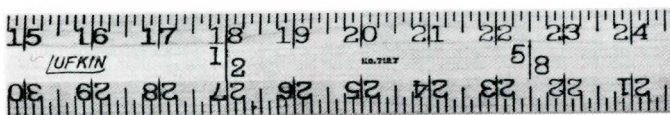
## Hardwood yardstick



One-piece, selected hard maple, smooth and well finished. Bold markings embedded in the wood. Brass end cap prevents wear. Marked on both sides reading from the same end. One side graduated on lower edge only in inches to  $\frac{1}{8}$ ths; other side graduated on both edges in fractions of yards,  $\frac{1}{16}$ ,  $\frac{1}{8}$ ,  $\frac{1}{4}$ ,  $\frac{3}{8}$ ,  $\frac{1}{2}$ ,  $\frac{5}{8}$ ,  $\frac{3}{4}$ ,  $\frac{7}{8}$ .

Cat. No.	N/S No.	" x " x "	Pack Wt. lb/kg	Shelf Pack
7122	45505	$\frac{1}{4}$ " x 1" x 36"	3.14/1.42	12

## Beveled $1\frac{1}{4}$ yardstick

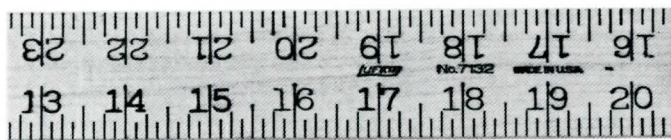


Designed for tailors and dressmakers for laying out, cutting, etc. Beveled both edges on one side so markings lie close to the work. Hole in one end for hanging.

Marked on bevel side only, graduated inches to  $\frac{1}{8}$ ths; opposite edges read from opposite ends. One flat center surface graduated in fractions of yards  $\frac{1}{16}$ ,  $\frac{1}{8}$ ,  $\frac{1}{4}$ ,  $\frac{3}{8}$ ,  $\frac{1}{2}$ ,  $\frac{5}{8}$ ,  $\frac{3}{4}$ ,  $\frac{7}{8}$ , 1",  $1\frac{1}{8}$ ".

Cat. No.	N/S No.	" x " x "	Pack Wt. lb/kg	Shelf Pack
7127	45506	$\frac{5}{16}$ " x $1\frac{1}{2}$ " x 45"	6.08/2.76	12

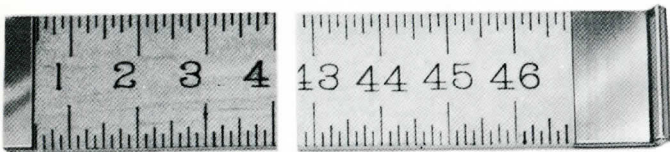
## Flat rules




Used extensively in shop, factory and textile industry as a bench rule. Easily read from either side of bench or table. Can be brought quickly to position on work, as measurements start at opposite ends. One-piece, selected hard maple, properly seasoned, smooth and well-finished, with clear protective coating. Hole in end for hanging. Bold markings embedded in wood. Large graduations, marked both sides, both edges. One side, inches to  $\frac{1}{8}$ ths, other side inches to  $\frac{1}{16}$ ths. Brass end caps prevent wear.

Cat. No.	N/S No.	" x " x "	Pack Wt. lb/kg	Shelf Pack
7132	45507	$\frac{1}{4}$ " x $1\frac{1}{2}$ " x 36"	4.58/2.08	12
7133	45508	$\frac{1}{4}$ " x $1\frac{1}{2}$ " x 48"	6.20/2.81	12
7134	45509	$\frac{1}{4}$ " x $1\frac{1}{2}$ " x 60"	—	12
7135	45510	$\frac{1}{4}$ " x $1\frac{1}{2}$ " x 72"	—	12

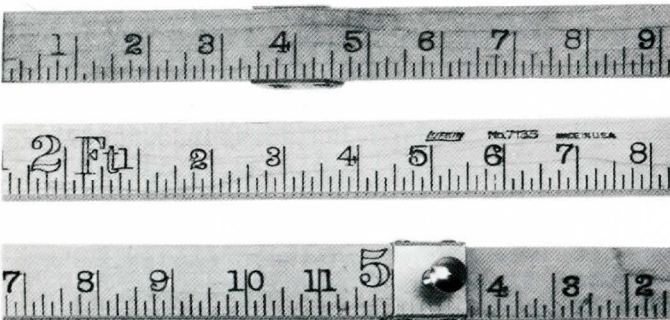
Glass cutter's rules, with brass lip



Used extensively by glass distributors and in glass factories. Superior rules of one-piece, selected hard maple, smooth and well-finished with clear protective coating. Bold markings embedded in the wood. Large graduations, marked both sides, both edges, consecutive inches to  $\frac{1}{8}$ ths. One end has sturdy, extruded brass lip or flange extending  $\frac{3}{8}$ " from one flat surface of rule, attached by four rivets extending through both side plates. Other end has brass cap. On upper face, zero falls at inside of lip, on lower face at opposite end of rule.

Cat. No.	N/S No.	 " x " x "	Pack Wt. lb/kg	Shelf Pack
7142	45513	$\frac{3}{8}$ " x 2" x 48"	—	1
7144	45514	$\frac{3}{8}$ " x 2 $\frac{1}{2}$ " x 72"	—	1
7146	45515	$\frac{3}{8}$ " x 3" x 96"	—	1
7148	45516	$\frac{3}{8}$ " x 3" x 120"	—	1
7149	45517	$\frac{3}{8}$ " x 3" x 144"	—	1

Builder's extension rules




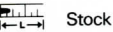
Two-section sliding rule lets one man quickly and accurately measure from floor to ceiling or across openings. Tension spring and set screw hold sections secure, closed or extended. Selected, polished hard maple, smooth and well-finished, with clear protective coating. Bold markings embedded in the wood. Large graduations; marked feet, inches and  $\frac{1}{8}$ ths on lower edge of both sides. Brass plated clamps and end caps prevent wear. Sections are 1" wide,  $\frac{3}{8}$ " thick, with stop at both ends. 7165 closed length is 5 feet; opens to 10 feet. 7166 closed length is 6 feet; opens to 12 feet.

Cat. No.	N/S No.	Length	Pack Wt. lb/kg	Shelf Pack
7165	45518	5' to 10'	1.37/0.62	1
7166	45519	6' to 12'	1.47/0.66	1

Glass cutter "L" squares



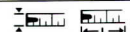
These thoroughly seasoned hardwood squares are well-finished in the natural wood and have substantial corner brace with brass side plates. Blade is mortised through and securely riveted into the stock. Stock is brass bound on inner face and has shoulder on both sides of blade so square can be used on either side. One-piece, hard maple; natural finish with clear protective coating. Bold markings embedded in the wood. Large graduations, marked both sides on outer edges, inches to  $\frac{1}{8}$ ths. Zero on both sides falls at inside of stock.

Cat. No.	N/S No.	Blade  " x " x "	Stock  " x " x "	Shelf Pack
7170	45520	$\frac{1}{4}$ " x 3" x 36"	$\frac{1}{8}$ " x 2 $\frac{1}{2}$ " x 27"	1
7171	45521	$\frac{1}{4}$ " x 3" x 48"	$\frac{1}{8}$ " x 2 $\frac{1}{2}$ " x 27"	1
7172	45522	$\frac{1}{4}$ " x 3" x 60"	$\frac{1}{8}$ " x 2 $\frac{1}{2}$ " x 30"	1

Metric-English wood meter stick



7112ME is a high quality hardwood meter stick used in schools and laboratories where metric measurements are required. One side has large markings on both edges, centimeters to millimeters. The other side upper edge only is consecutive inches to  $\frac{1}{8}$ ths.

Cat. No.	N/S No.	 mm x mm x m	Pack Wt. lb/kg	Shelf Pack
7112ME	45504	6.35mm x 25mm x 1m	.27/.12	1



## School shop steel rules



Medium weight, tempered steel rules; popular in school shops and industrial plants. Hole in one end for hanging. Deeply-etched, permanent markings are black-filled for easy reading. Large graduations, marked upper edge both sides, one side  $\frac{1}{8}$ ths, other side,  $\frac{1}{16}$ ths. Opposite measure from opposite ends.

Cat. No.	N/S No.	" x " x "	Pack Wt. lb/kg	Shelf Pack
60-12	45073	$\frac{3}{4}$ " x $\frac{1}{2}$ " x 12"	0.15/0.07	6
60-24	45074	$\frac{3}{4}$ " x $\frac{1}{2}$ " x 24"	0.84/0.38	6

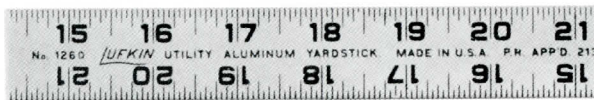
## One-piece steel rules



These substantial tempered steel rules are in demand by industrial users who want accuracy and legibility at a popular price. Also preferred by many school shop instructors. Bold markings, deeply-etched and permanent, are black-filled for easy reading; heavier than on machine-divided rules. Large graduations, marked both sides, both edges. Upper edge in  $\frac{1}{8}$ ths, lower edge in  $\frac{1}{16}$ ths. Opposite sides measure from opposite ends.

Cat. No.	N/S No.	" x " x "	Pack Wt. lb/kg	Shelf Pack
62-1	45079	$\frac{1}{8}$ " x $1\frac{1}{4}$ " x 1'	0.25/0.11	1
62-2	45080	$\frac{1}{8}$ " x $1\frac{1}{4}$ " x 2'	0.51/0.23	1
62-3	45081	$\frac{1}{8}$ " x $1\frac{1}{4}$ " x 3'	0.76/0.34	1
62-4	45082	$\frac{1}{8}$ " x $1\frac{1}{4}$ " x 4'	1.02/0.46	1
62-6	45083	$\frac{1}{8}$ " x $1\frac{1}{4}$ " x 6'	1.59/0.72	1

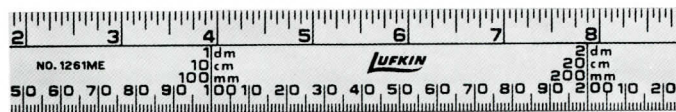
## Aluminum yardstick



Finest quality aluminum yardstick. Lightweight, flexible, rustproof, tarnish-free, plus sharply-defined, easy-to-read markings. Straight parallel edges for greater accuracy. Finer graduations read easier. Marked one side only, both edges in consecutive inches to  $\frac{1}{8}$ ths. Lies flat and has hang-up hole for storage.

Cat. No.	N/S No.	" x "	Pack Wt. lb/kg	Shelf Pack
1260	45380	$1\frac{3}{4}$ " x 36"	1.67/0.76	6

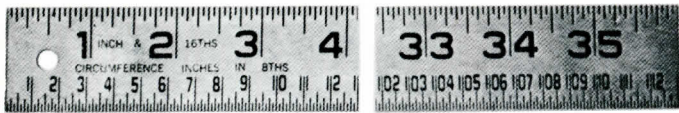
## Metric-English aluminum meter stick



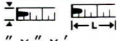
This aluminum meter stick is very useful in helping to make the transition to the metric system. It's graduated on the front side in inches to  $\frac{1}{8}$ th on upper edge and in decimeters, centimeters and millimeters on the lower edge. On the reverse side tables of equivalents and conversions are shown.

Cat. No.	N/S No.	" /mm x m	Pack Wt. lb/kg	Shelf Pack
1261ME	45381	1" / 27mm x 1m	1.6/.80	6

# Tinner's steel circumference rule




A standard rule with tinners and other sheet metalworkers. Tempered medium-weight steel; hole in one end for hanging. Deeply-etched, permanent markings are black-filled for easy reading. Special graduations on 95-3' model, one side, upper edge, marked consecutive inches to  $\frac{1}{8}$ ths, lower edge, marked up to 113 circumference inches to  $\frac{1}{8}$ ths; on 95-4' model, one side, upper edge, marked consecutive inches to  $\frac{1}{8}$ ths, lower edge, marked up to 150 circumference inches to  $\frac{1}{8}$ ths. Reverse side of both models has formulas for calculating circumference diameter, area, etc., and size tables for laying out measures and cans.

Cat. No.	N/S No.		Pack Wt. lb/kg	Shelf Pack
95-3	45098	$\frac{1}{8}$ " x $1\frac{1}{4}$ " x 3'	0.78/0.35	1
95-4	45099	$\frac{1}{8}$ " x $1\frac{1}{4}$ " x 4'	1.04/0.47	1

# Metric school shop steel rule



This metric steel rule is graduated both sides on the top edge to millimeters. Every tenth millimeter is numbered throughout length. Bold graduations are easy to read; rule lies flat and has hang-up hole for storage.

Cat. No.	N/S No.		Pack Wt. lb/kg	Shelf Pack
60M-300	45658	18mm x 300mm	0.08/0.08	1
60M-600	45659	18mm x 600mm	0.15/0.06	1
62M-300	45654	31mm x 300mm	0.26/0.18	1
62M-600	45655	31mm x 600mm	0.52/0.24	1
62M-1M	45656	31mm x 1m	0.83/0.38	1
62M-2M	45657	31mm x 2m	1.64/0.74	1

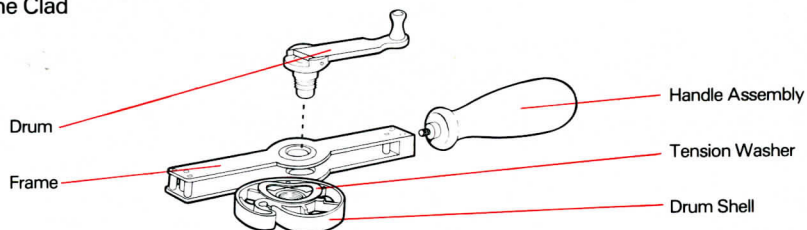


# Replacement parts for reels and frames

See catalog pages no. 28, 31 and 32 for listing of tape lines.

## 81 & 91 Series reels

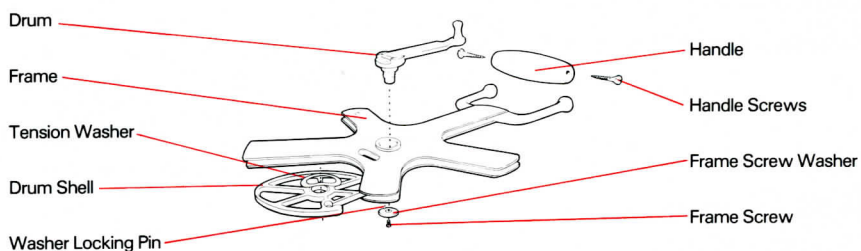
For  $\frac{3}{8}$ " / 10mm and  $\frac{1}{2}$ " / 13mm Widths — Chrome Clad and Gaging Tapes



Tape Width	Tape Length	Frame Type	Reel No.	Drum Cat. No.	Frame Cat. No.	Handle Cat. No.	Tension Washer Cat. No.	Drum Shell Cat. No.
$\frac{3}{8}$ "	50'	2 Arm	81-50	17124	10064	11819	17880	17282
$\frac{3}{8}$ "	100'	4 Arm	81-100	17125	10065	11819	17880	17282
$\frac{3}{8}$ "	200'	4 Arm	81-200	17127	10067	11819	17880	17282
$\frac{1}{2}$ "	25'	2 Arm	91-25	17129	10069	11819	17880	17289
$\frac{1}{2}$ "	50'	2 Arm	91-50	17130	10070	11819	17880	17289
$\frac{1}{2}$ "	75'	4 Arm	91-75	17133	10071	11819	17880	17289

## 41 & 61 Series reel frames

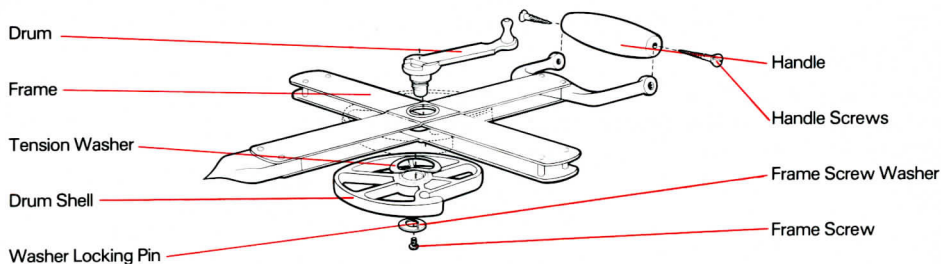
For 200, 300 and 500 Foot Lengths



Tape Width	Tape Length	Frame Type	Reel No.	Drum Cat. No.	Handle Screw Cat. No.	Handle Cat. No.	Frame Cat. No.	Tension Washer Cat. No.	Drum Shell Cat. No.	Washer Locking Pin Cat. No.	Frame Screw Washer Cat. No.	Frame Screw Cat. No.
$\frac{1}{8}$ "	200'	5 Arm	41-200	17105	5315	11806	10057	17880	17315	29395	12806	12401
$\frac{1}{8}$ "	300'	5 Arm	41-300	17106	5315	11806	10052	17880	17315	29395	12806	12401
$\frac{1}{8}$ "	500'	5 Arm	41-500	17107	5315	11806	10053	17880	17315	29395	12806	12401
$\frac{5}{16}$ " or $\frac{1}{4}$ "	200'	5 Arm	61-200	17105	5315	11806	10251	17880	17296	29395	12806	12401
$\frac{5}{16}$ " or $\frac{1}{4}$ "	300'	5 Arm	61-300	17106	5315	11806	10252	17880	17296	29395	12806	12401
$\frac{5}{16}$ " or $\frac{1}{4}$ "	500'	5 Arm	61-500	17107	5315	11806	10253	17880	17296	29395	12806	12401

## 31 & 51 Series reels

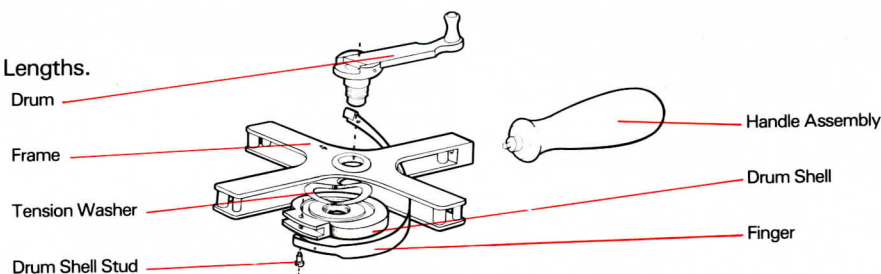
For Over 100 Foot Lengths



Tape Width	Tape Length	Frame Type	Reel No.	Drum Cat. No.	Handle Screw Cat. No.	Handle Cat. No.	Frame Cat. No.	Tension Washer Cat. No.	Drum Shell Cat. No.	Washer Locking Pin Cat. No.	Frame Screw Washer Cat. No.	Frame Screw Cat. No.
$\frac{5}{16}$ " or $\frac{1}{4}$ "	100'	4 Arm	31-100	17104	5315	11806	10056	17880	17296	29395	12806	12401
$\frac{5}{16}$ "	200'	4 Arm	31-200	17105	5315	11806	10057	17880	17296	29395	12806	12401
$\frac{5}{16}$ "	300'	4 Arm	31-300	17106	5315	11806	10058	17880	17296	29395	12806	12401
$\frac{1}{4}$ "	300'	4 Arm	51-300	17106	5315	11806	10046	17880	17296	29395	12807	12401
$\frac{5}{16}$ "	500'	4 Arm	31-500	17107	5315	11806	10059	17880	17296	29395	12806	12401

## 11 Series reels

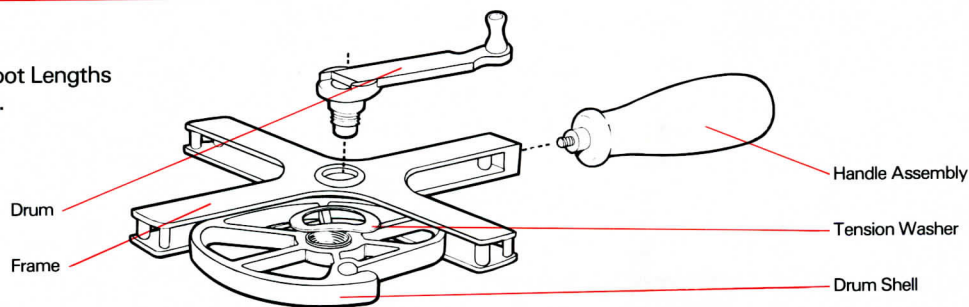
For  $\frac{1}{4}$ " / 6mm wide – 100, 200 and 300 Foot Lengths.  
Fits Peerless Chrome Clad Tapes



Tape Width	Tape Length	Frame Type	Reel No.	Drum Cat. No.	Frame Cat. No.	Handle Cat. No.	Tension Washer Cat. No.	Drum Shell Cat. No.	Finger Cat. No.	Drum Shell Stud Cat. No.
$\frac{1}{4}$ "	100'	4 Arm	11-100	17113	10033	11819	17880	17287	29365	17370
$\frac{1}{4}$ "	200'	4 Arm	11-200	17122	10036	11819	17880	17287	29365	17370
$\frac{1}{4}$ "	300'	4 Arm	11-300	17123	10037	11819	17880	17287	29365	17370

## 12 Series reels

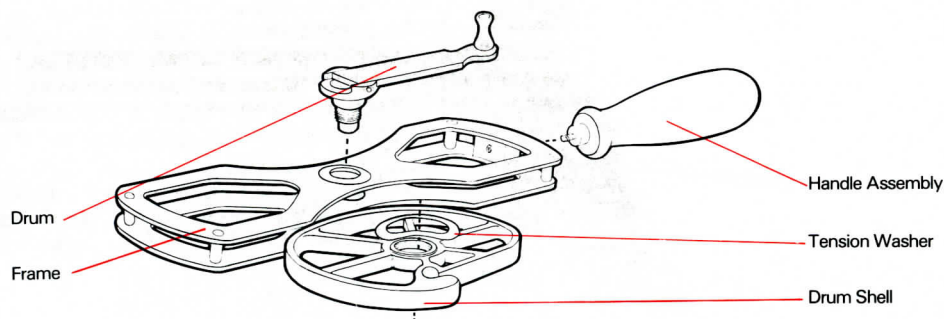
For  $\frac{1}{4}$ " / 6mm Wide 150 & 200 Foot Lengths  
Fits Western Chrome Clad Tapes.



Tape Width	Tape Length	Frame Type	Reel No.	Drum Cat. No.	Frame Cat. No.	Handle Cat. No.	Tension Washer Cat. No.	Drum Shell Cat. No.
$\frac{1}{4}$ "	150'	4 Arm	12-150	17120	10034	11819	17880	17288
$\frac{1}{4}$ "	200'	4 Arm	12-200	17120	10039	11819	17880	17288

## 31-100 Frame

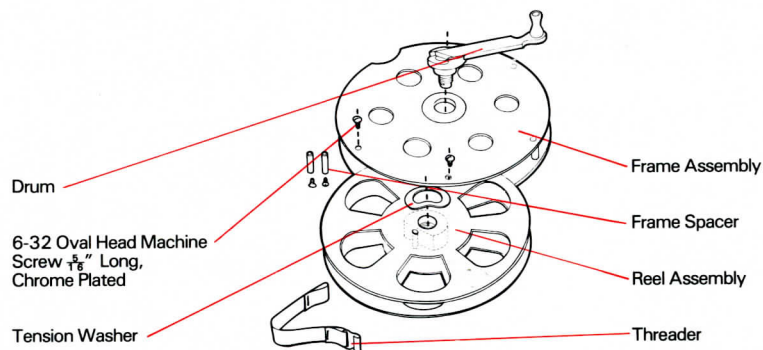
For 100 Foot Lengths Only



Tape Width	Tape Length	Frame Type	Reel No.	Drum Cat. No.	Frame Cat. No.	Handle Cat. No.	Tension Washer Cat. No.	Drum Shell Cat. No.
$\frac{1}{4}$ " or $\frac{5}{16}$ "	100'	2 Arm	31-100	17119	10054	11819	17880	17296

## 1407 Reel

For  $\frac{5}{8}$ " / 16mm Wide Woven Tape  
See catalog page no. 24 for complete unit and replacement lines.



Drum Cat. No.	Screw Cat. No.	Frame Cat. No.	Tension Washer Cat. No.	Reel Cat. No.	Frame Spacer Cat. No.	Strap Handle Cat. No.	Threader Cat. No.
17055	5285	10239	17881	10830	12510	11814	20007



## Lufkin modules

For use with the Cooper Tool Wall. For additional information see the last 2 pages of this catalog.

### TW-11 (45754) Tape module



Size: 16"/400mm x 29"/740mm (A).  
Shipping weight: 16 lb/7.26 Kg.  
Contains: Two (2) Each W6110, Y826, Y8210, Y8212, 8010, 8012, 8312, 8316, 8325, 8425, 50, 100.  
TW-11A (45755) refill assortment only.

### TW-12 (45756) Tape module



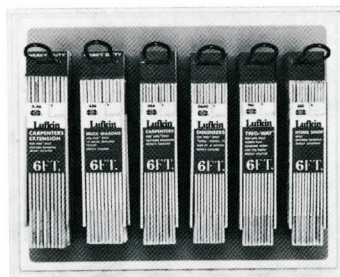
Size: 16"/400mm x 29"/740mm (A).  
Shipping weight: 22 lb/9.98 Kg.  
Contains: Two (2) Each W9210, W9212, W9312, W9316, Y210, Y212, Y12, Y16, Y25, Y116, Y125, HW223, HW226.  
TW-12A (45757) refill assortment only.

### TW-13 (45758) Replacement blade module



Size: 16"/400mm x 13"/330mm (C).  
Shipping weight: 6 lb/2.72 Kg.  
Contains: Two (2) Each RY416, RY425, RW10, RW12, RW312, RW316, RY325.  
TW-13A (45759) refill assortment only.

### TW-14 (45760) Wood rule module



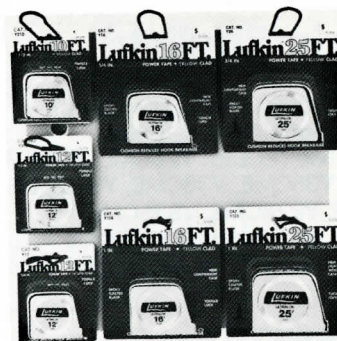
Size: 16"/400mm x 13"/330mm (C).  
Shipping weight: 7 lb/3.17 Kg.  
Contains: Two (2) Each X46, 066, 066D, 460, 966, 636.  
TW-14A (45761) refill assortment only.

### TW-15 (45832) Unilok



Size: 16"/400mm x 16"/400mm (B).  
Shipping weight: 10lb/4.53 Kg.  
Contains: Two (2) Each 8010, 8012, 8312, 8316, 8325, 8425.  
TW-15A (45833) refill assortment only.

### TW-16 (45834) Ultralok tape module



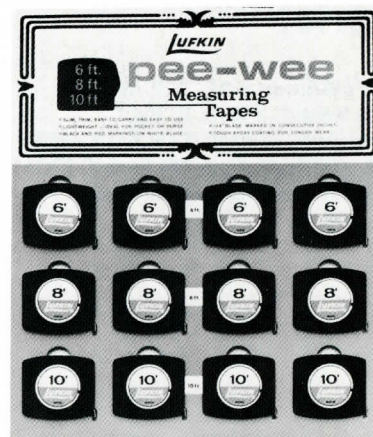
Size: 16"/400mm x 16"/400mm (B).  
Shipping weight: 10 lb/4.53 Kg.  
Contains: Two (2) Each Y210, Y212, Y12, Y16, Y25, Y116, Y125.  
TW-16A (45835) refill assortment only.

### TW-100 (45762) Measuring tool module



Size: 16"/400mm x 13"/330mm (C).  
Shipping weight: 7lb/3.17 Kg.  
Contains Two (2) Each W616, 8012, 8316, 8325, 066, 460.  
TW-100A (45763) refill assortment only.

### PWI (45001) Pee-Wee tape display



Size: 9 1/2"/2.41mm x 10"/2.54mm.  
Shipping weight: 20 lb/9.07 Kg.  
Contains: Four (4) Each W616, W618, W6110.



## **TW-301 (EXPORT)** **Tape module** **(Metric/English)**

Size: 16"/400mm x 29"/740mm (A).  
Shipping weight: 18 lb/8.16 Kg.  
Contains: Two (2) Each Y23CME, Y25CME,  
Y34CME, Y35CME, Y38CME, Y822CME,  
Y823CME, Y824CME, Y835CME,  
HY20CME, HY30CME, HY230CME.  
TW-301A Tape Module Assortment.

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## **TW-302 (EXPORT)** **Tape module** **(Metric)**

Size: 16"/400mm x 29"/740mm (A).  
Shipping weight: 18 lb/8.16 Kg.  
Contains: Two (2) Each Y23CM, Y25CM,  
Y34CM, Y35CM, Y38CM, Y822CM,  
Y823CM, Y824CM, Y835CM, HY20CM,  
HY30CM, HY230CM.  
TW-302A Tape Module Assortment.

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## **TW-303 (EXPORT)** **Measuring tool** **module** **(Metric/English)**

Size: 16"/400mm x 13"/330mm (C).  
Shipping weight: 6 lb/2.72 Kg.  
Contains: Two (2) Each Y23CME, Y35CME,  
Y38CME, Y824CME, Four (4) Each  
062CME. TW-303A Measuring Tool Module  
Assortment.

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## **TW-304 (EXPORT)** **Measuring tool** **module** **(Metric)**

Size: 16"/400mm x 13"/330mm (C).  
Shipping weight: 7 lb/3.18 Kg.  
Contains: Two (2) Each Y23CM, Y35CM,  
Y38CM, Y824CM, Four (4) Each 062CM.  
TW-304A Measuring Tool Module  
Assortment.

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## **TW-305 (EXPORT)** **Replacement blade** **module** **(Metric/English)**

Size: 16"/400mm x 13"/330mm (C).  
Shipping weight: 5 lb/2.27 Kg.  
Contains: Two (2) Each RY22CME,  
RY23CME, RY25CME, RY34CME,  
RY35CME, RY38CME.  
TW-305A Replacement Blade Module  
Assortment.

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## **TW-306 (EXPORT)** **Replacement blade** **module** **(Metric)**

Size: 16"/400mm x 13"/330mm (C).  
Shipping weight: 5 lb/2.27 Kg.  
Contains: Two (2) Each RY22CM,  
RY23CM, RY25CM, RY34CM,  
RY35CM, RY38CM.  
TW-306A Replacement Blade Module  
Assortment.

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## **TW-307 (EXPORT)** **Replacement blade** **module** **(Metric/English)**

Size: 16"/400mm x 13"/330mm (C).  
Shipping weight: 6 lb/2.72 Kg.  
Contains: Four (4) Each RY23CME,  
RY24CME, RY35CME, RY38CME.  
TW-307A Replacement Blade Module  
Assortment.

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## **TW-308 (EXPORT)** **Replacement blade** **module** **(Metric)**

Size: 16"/400mm x 13"/330mm (C).  
Shipping weight: 6 lb/2.72 Kg.  
Contains: Four (4) Each RY23CM,  
RY24CM, RY35CM, RY38CM.  
TW-308A Replacement Blade Module  
Assortment.

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## **TW-309 (EXPORT)** **Wood rule module** **(Metric)**

Size: 16"/400mm x 13"/330mm (C).  
Shipping weight: 5 lb/2.27 Kg.  
Contains: Four (4) Each 062CM, 460CM,  
966CM.  
TW-309A Wood Rule Module  
Assortment.

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## **TW-310 (EXPORT)** **Wood rule module** **(Metric/English)**

Size: 16"/400mm x 13"/330mm (C).  
Shipping weight: 5 lb/2.27 Kg.  
Contains: Four (4) Each 062CME,  
460CME, 966CME.  
TW-310A Wood Rule Module  
Assortment.

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Cat. No.	Page	Cat. No.	Page	Cat. No.	Page	Cat. No.	Page	Cat. No.	Page
062CM	L37	0C1294SME F/590	L19	146ME	L6	1294S ME		C1288	L26, L33
062CMD	L37	0C1295S F/590	L19	146P	L6	MEX F/590	L20	C1290S F/590	L19
062CME	L37	0C1296S F/590	L19	146PD	L6	1295S F/590	L20	C1290½ S F/590	L19
066	L36, L45	0C1296SME F/590	L19	150MM	L22	1296SME F/590	L20	C1291S F/590	L19
066D	L37, L45	0C1676D	L26	202	L18	1407	L24, L44	C1293S F/587½	L19
066F	L36	0C2276D	L26	263P	L12	1407D	L24	C1293S F/590	L19
068	L36	0C2276M	L26	263TP	L12	1688	L6	C1293SD F/590	L19
068F	L36	0C2276ME	L26	403	L24	1703	L23	C1293SME F/590	L19
0112P	L14	0C5100B	L30	403D	L24	1703D	L23	C1294S F/587½	L19
0120CH	L14	0C5200B	L30	403ME	L24	1706	L23	C1294S F/590	L19
0120P	L14	0C5300B	L30	404L	L24	1706D	L23	C1294SD F/590	L19
0120TP	L14	0C9100	L29	406	L24	1707	L23	C1294SM F/590	L19
0125CH	L14	0C9100B	L29	406D	L24	1707D	L23	C1296S F/590	L19
0146P	L6	0C9100M	L29	406ME	L24	2915MM/150MM	L20	C1296SME F/590	L19
0146PD	L6	0C9164M	L29	460	L38, L45	2915MM/590GM	L20	C1376D	L33
0263P	L12	0C9200B	L29	460CM	L38, L46	2920MM/150MM	L20	C1676D	L26
0403	L24	0C9300B	L29	460CME	L38, L46	2920MM/590GM	L20	C2276D	L26
0403D	L24	0C9328M	L29	460F	L38	3176ME	L6	C2276M	L26
0403ME	L24	0H403	L24	524	L38	6810	L5	C2276ME	L26
0404L	L24	0H403D	L24	552	L32	7112ME	L40	C2730MM	L27
0406	L24	0H406	L24	576	L34	7122	L39	C2730MME	L27
0406D	L24	0H406D	L24	576A	L34	7127	L39	C2750MM	L27
0406ME	L24	0H433	L12	576B	L34	7132	L39	C2750MME	L27
0703	L23	0H436	L12	576D	L34	7133	L39	C2910MM/150MM	L19
0703D	L23	0HC253	L11	576E	L34	7134	L39	C2910MM/590GM	L19
0706	L23	0HC256	L11	576F	L34	7135	L39	C2910MME/590GM	L19
0706D	L23	0HW50	L13	576G	L34	7142	L40	C2915MM/150MM	L19
01290S F/590	L20	0HW100	L13	577B	L35	7144	L40	C2915MM/590GM	L19
01291S F/590	L20	0HW223	L13	577C	L35	7146	L40	C2916MME/590GM	L19
01293S F/590	L20	0HW223D	L13	577D	L35	7148	L40	C2920MM/150MM	L19
01293SME		0HW226	L13	577K	L35	7149	L40	C2920MM/590GM	L19
MEX F/590	L20	0HW226D	L13	577M	L35	7165	L40	C2920MME/590GM	L19
01294SME		0LW23	L18	577P	L35	7166	L40	C2930MM/150MM	L19
MEX F/590	L20	0S1293 F/590	L20	577R	L35	7170	L40	C2930MM/590GM	L19
01295S F/590	L20	0Y50	L13	577T	L35	7171	L40	C2930MME/590GM	L19
01296SM F/590	L20	0Y100	L13	578	L35	7172	L40	C5030MB	L29
01296SME F/590	L20	1P	L14	578A	L35	8010	L4, L45	C5050MB	L29
01407	L24	11-100	L28, L44	578B	L35	8012	L4, L45	C50100MB	L29
01407D	L24	11-200	L28, L44	578C	L35	8312	L4, L45	C9030MB	L29
01707	L23	11-300	L28, L44	579	L26, L33	8316	L4, L45	C9050MB	L29
01707D	L23	12-150	L26, L28, L44	580	L33	8325	L4, L45	C9100B	L29
04300B	L31	12-200	L28, L44	580E	L33	8425	L4, L45	C9100MB	L29
05066A	L30	31-100	L30, L32, L43, L44	580F	L33	427257	L3	C9200B	L29
05100B	L30	31-200	L30, L31, L43	580H	L33	427277	L3	C9210	L3
05100M	L30	31-300	L30, L31, L43	580T	L26, L32	427279	L3	C9210M	L3
05165T	L31	31-500	L31, L43	583	L33	427331	L3	C9212	L3
05200B	L30	34V	L39	583C	L33	427333	L3	C9212X	L3
05300B	L30	34½ V	L39	584	L32	427335	L3	C9300B	L29
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